

RECEIVED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

JUN 1 4 1995

REPLY TO THE ATTENTION OF:

June 8, 1995

CATERPILLAR INC MAPLETON PLT ATTN RL CLAUSSEN 8826 W RTE 24 MAPLETON IL 61547

RE: US EPA ID Number)
Location: 8826 W RTE 24	_
MAPLETON IL	
In response to your correspondence of <u>FEBRUA</u>	RY 22, 1995, the following
information has been updated:	

NAME OF INSTALLATION TO LOCATION OF INSTALLATION TO INSTALLATION MAILING ADDRESS TO 8826 W RTE 24 INSTALLATION CONTACT TO

GENERATOR STATUS TO ADDITION OF WASTE CODE CATERPILLAR INC MAPLETON PLT

8826 W RTE 24 R L CLAUSSEN 309 633 8601 LARGE QUANTITY

D009 F001 F003 F027 D012 D023 D024

If you have any questions, please call me at (312) 886-6173.

Sincerely.

Sharon Kiddon

RCRA Notifications Coordinator

Waste Management Division

Abara Kidda

State Agency cc:

File



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 RCRA ACTIVITIES P.O. BOX A3587 CHICAGO, ILLINOIS 60690

Caterpellae Inc 8826 W. RX 24 Mayleton, Al 61547

5/13/91

RE: EPA ID #: ILD 052664364	
In response to your request of <u>5-7-91</u>	the following
information has been updated:	
(1) change generalor status! to Small general (2) add wante codes to: POII, FOOZ, UIZZ, UZZ	lor 6

If you have any questions, please contact me at (312) 886-6173.

Sincerely,

Sharon Kiddon

RCRA Notifications Coordinator Waste Management Division

Sham Raddon

cc: State Agency File



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

111 West Jackson Blvd. CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF: RCRA ACTIVITIES

APR 6 1982

Mr. R. L. Claussen Plant Manager Route 24 Mapleton, Illinois 61547

RE: Interim Status Acknowledgement USEPA ID No. ILD 052 664 364

FACILITY NAME: CATERPILLAR TRACTOR COMPANY

Dear Mr. Claussen:

This is to acknowledge that the U.S. Environmental Protection Agency (USEPA) has completed processing your Part A Hazardous Waste Permit Application. It is the opinion of this office that the information submitted is complete and that you, as an owner or operator of a hazardous waste management facility, have met the requirements of Section 3005(e) of the Resource Conservation and Recovery Act (RCRA) for Interim Status. However, should USEPA obtain information which indicates that your application was incomplete or inaccurate, you may be requested to provide further documentation of your claim for Interim Status. Our opinion will be reevaluated on the basis of this information.

As an owner or operator of a hazardous waste management facility, you are required to comply with the interim status standards as prescribed in 40 CFR Parts 122 and 265, or with State rules and regulations in those States which have been authorized under Section 3006 of RCRA. In addition, you are reminded that operating under interim status does not relieve you from the need to comply with all applicable State and local requirements.

The printout enclosed with this letter identifies the limit(s) of the process design capacities your facility may use during the interim status period. This information was obtained from your Part A Permit application. If you wish to handle new wastes, to change processes, to increase the design capacity of existing processes, or to change ownership or operational control of the facility, you may do so only as provided in 40 CFR Sections 122.22 and 122.23.

As stated in the first paragraph of this letter, you have met the requirements of 40 CFR Part 122.23; your facility may operate under interim status until such time as a permit is issued or denied. This will be preceded by a request from this office or the State (if authorized) for Part B of your application. Please contact Arthur Kawatachi of my staff at (312) 886-7449, if you have any questions concerning this letter or the enclosure.

Sincerely yours,

Karl J. Klepitsch, Jr., Chief

Waste Management Branch

Enclosure

ce: Donald F. Domnick, Vice President

Please refer to Section V. Line-by-Line Instructions for Completing EPA Form 8700-12 before completing this form. The information requested here is required by law (Section 3010 of the Besurge Conservation and

Notification of Regulated Waste Activity

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Please refer to the Instructions for Filing Natification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).



Notification of Regulated Waste Activity

Date Received (For Official Use Only)

FEB 2 2 1995

United States Environmental Protection Agency

United States E	-nvironmental Prote	ection Agency
I. Installation's EPA ID Number (Mark 'X' in the appropr	riate box)	TO SEAL OF TOWN THE RESERVE
A. First Notification B. Subsequent Notific	C. Installation's EPA ID Number	
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IV. Installation Mailing Address (See instructions)		
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fore: Mail completed form to the apprepriate EPA

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March to the first of the first

CATERPILLAR®

Caterpillar Inc.

Mapleton, Illinois 61547

January 17, 1992

U. S. EPA, REGION V SWB - PMS

JUL 171992

IEPA DLPC - RCRA Activities 2200 Churchill Rd. Springfield, IL 62706

Dear Sir:

Re: RCRA Part A Amendment

Caterpillar Inc. - Mapleton Plant

ILD052664364

Please find enclosed the following forms to amend the above referenced permit:

> Hazardous Waste Permit Application Part A Notification of Regulated Waste Activity

This amendment is made to add D007, D018, D029, and U154 wastes.

Any questions regarding this matter should be addressed to Carey French at

(309) 633-8425.

Telephone: (309) 633

klc/parta192.1tr

Enclosures -

Mary V.

addition of Waste Code

OK to add

Oaste codes

alary V.

Carolya

JUN 22 1992

IEPA/DLPC

7/11/92

Please refer to the instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).

Notification of Regulated Waste Activity BETWITTON METERS PROJECTION AGENCY

Date Received (For Official Use Only)

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Form Approved. CMB No. 2050-0028. Expires 10-31-81

	ID - For Onicial Use Only and the
VIII. Type of Regulated Waste Activity (Mark X' in the appropriate boxes.	Refer to Instructions 1
A. Hazardous Waste Activity	
1. Generator (See Instructions) 2. a. Greater than 1000kg/mo (2.200 lbs.) 3. Treater, Storer, Disposer (at Note: A permit is required to this activity; see instructions of this activity; see instructions of the compact of the com	Burner a. Generator Marketing to Burner b. Other Markerer c. Burner - indicate device(s) - Type of Combustion Device 1. Utility Boiler 2. Industrial Boiler 3. Industrial Furnace 2. Specification Used Oil Fuel Marketer (or On-site Eurner) Who First Claims the Oil Meets the Specification
A Characteristics of No-Box 411	
1. Ignitable (D001) (D002) (D003) Characteristic (D000) (List specific Elements (List specific Element	PA hazardous waste number(s) for the Toxicity Characteristic contaminant(s)) 0 0 8 5 0 0 9 0 1 1
B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33. See instructions if you need 1 2 3 4 F 0 0 2 7 U 1 2 2 U 1 5 7 8 9 10 C. Other Wastes. (State or other wastes requiring an I.D. number. See instructions.)	5 6
X. Certification	5 6
I certify under penalty of law that I have personally examined and am fa and all attached documents, and that based on my inquiry of thos obtaining the information, I believe that the submitted information is that there are significant penalties for submitting false information imprisonment.	se individuals immediately responsible for
Signature Name and Official Title (type or print R.L. Claussen, Plant I	nt) Date Signed Manager 11792
Additional codes for Section IXA above: D012, D0	18, DO23, DO24, and DO29.
Note: Mail completed form to the appropriate EPA Regional or State Office. (See S	Section III of the booklet for addresses.)

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Caterpillar's Mapleton Plant is a Gray Iron Foundry, producing castings for Caterpillar's use in the production of engines and heavy equipment.

Note: This filing updates the following filings:

November 14, 1980 (Original) December 21, 1984 May 31, 1989

March 4, 1991 May 15, 1991

THE Process of Belle and Federal Lapsolles

- PROCESS CODE the legicale from the fit of percess codes below that best describes each process to be used at the facility.

 The fits fitting by providing the specified of more lines are needed, attach a separate sheet of paper with the additional infermation. By providing the seed that is not included in the flat of codes beings, then describe the process (including its design capability is as a providing its last of the flat of codes beings, then describe the process (including its design).
- PROTEIN MAKEN CHACITY For each code entered in column A enter the capacity of the process.
 - 1. And the life amount. In a case where design capacity is not applicable (such as in a closure/post-closure or materials and a closure to the process and
 - 2. The state of the second and the state of the second from the list of unit measure codes being that described the man second from the list of unit measure codes being that the second from the list of unit measure codes being that the second from the list of unit measure codes being that the second from the list of unit measure that are listed below should be used.

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CODE	PROCESS	DESIGN CAPACITY	MEASURE	CODE
D79 D80 D81 D82 D83 S01 S02 S03 S04	DISPOSAL: INJECTION WELL LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT STORAGE: CONTAINER (barrel, drum, etc.) TANK WASTE PILE SURFACE IMPOUNDMENT IREATMENT:	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY ACRE-FEET OR HECTARE-METER ACRES OR HECTARES GALLONS PER DAY OR LITERS PER DAY GALLONS OR LITERS GALLONS OR LITERS GALLONS OR LITERS CUBIC YARDS OR CUBIC METERS GALLONS OR LITERS	GALLONS GALLONS PER HOU GALLONS PER DAY LITERS LITERS PER HOUR LITERS PER DAY SHORT TONS PER H SHORT TONS PER L SHORT TONS PER L METRIC TONS PER L METRIC TONS PER L	G R E U L H V HOUR D HOUR W
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T04	OTHER TREATMENT (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in item XIII.)	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY	CUBIC METERS ACRES ACRE-FEET HECTARES HECTARE-METER BTU'S PER HOUR	B A Q

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- OUT OF SEASONS For wicks in 5 enter the unit of measure code. Links of measure which must be u

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	. к
TONS	7	METRIC TONS	. М

the links of measure must be computed into one of the required units of

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waster for each line; hazardous waste entered in column A select the code(s) from the list of process codes contained in hem XII A, on seeing the incline how the waste will be stored, treated, and/or disposed of at the laceling.

or non-listed hazardous waste: flee to let of process codes contained in the de allande contamb ant entered in column A, select the code(s) from the If A an page 3 to indicate all this processes that will be used to store, treat, and have that the processes that will be used to store, treat, and have that the processes the processes that the processes the processes that the processes the pro of all the non-listed haze

NOTE: THREE SPACES ARE PROVIDE OF ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- 2. Enter "000" in the sudgest of the of them IN-Big. :
- of all places of the process that the beginning of the edificional code(s). PROCESS DESCRIPTION: ITA COM TRACTAL ed, describe the process in the space provided on

PESCRIPTED BY ADDRESSHAME CHEST HE ENGLISH WASTE NUMBER - Hezardous we need that the first World Manual states for described on the form HOTE HAZARDOUS WASTESDESCR

- E. Reference of the EPA Hazardery Plans Jumbers and energy is prolumn A. On the same line complete columns and of the sestinating the total through principly of the waste and describing all the processes to be used to treat, and
- 2. In column A of the next line early the other EPA Hazzardous Weste Number that can be used to describe the waste. In column D(2) on that line entitle lightestand with above and make the other entries on that line.

 3. Repeat step 2 for each EPA Mazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE POR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 300 points per year of chrome sharings from leather tanning and finishing operation. In addition, the facility will treat and dispose of these non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other will be are stimated 100 pounds per year of that waste. Treatment will be in an inclinated and disposel will be in a lands.

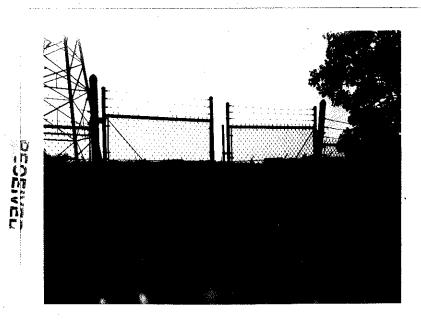
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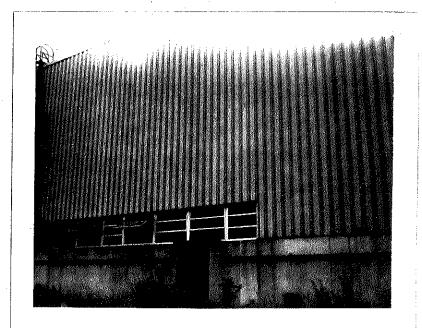
Building V



S. of Q-yard, not in use currently



B**u11**ding Y-16



Building B marshalling, not in use currently



Please print or type with ELITE type (12 cf se refer to the Instructions

ers per inch) in the unshaded areas only

For Approved, OMB No. 2050 0028. Expires 10 31 31 GSA No. 0246-EPA-OT

Notification of Regulated Waste Activity

(For Official Use Only)

Date Received

in Filing Natification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Section 2010). and Recovery Act). United States Environmental Protection Agency I Installation's EPA ID Number (Mark 'X' in the appropriate box) B. Subsequent Notification A. First Notification Ι L D 0 5 2 3 (complete item C) 6 6 4 If. Name of installation (include company and specific site name) 05 T III. Location of Installation (Physical address not P.O. Box or Route Number) G. 4. 1. 1. 8 2 6 W R IJ T 2 0 E 4 Street (continued) State ZIP Code off or Town Ε M T 0 Ν 9 a 一、一个一个 A WEST OF STREET County Code County Name P E R 0 W. Installation Mailing Address (See Instructions) 种能力。 Street or P.O. Box S M E A · 以第7位的 1000年中的美術主 ZIP Code State City or Town V. Installation Contact (Person to be contacted regarding waste activities at site) .5. (first) Name (last) C S S E U N L Phone Number (area code and number) Job Title P T. T VI. Installation Contact Address (See Instructions) - oniact Add Care and are or be ZIP Code ity or Town State VII. Ownership (See Instructions) A THE RESIDENCE A Name of Installation's Legal Owner ce the re T E P R I L L R C N V. 10 Street, P.O. Box, or Bould Number **1991** 0 0 N F. D 1.-1 City or Town marka (s. j + 80 P IEPA:DLP State ZIP Code E 0 Ι L 6 6 9 I Changed) Year 1 19 1 C. Owner Type Talk II (Date hone Numb 3 0 9 6 7 5 - 11 0 0 0

per phone call Cary 7. VIII. Type of Regulated Waster		orialia borea. Hefer a r h	etricilinit	
100	tardous Waste Activity		B. Lined Oil Fust Activities	
1. Generator (See Instructions) a. Greater than 1000kg/mo (2 b. 100 to 1000 kg/mo (220 c. Less than 1000kg/mo (220 c. Transporter (Indicate Mode in b	200 lbs.) Note: A pen trie activity. 200 lbs.) 4. Hazardous bs.) 3. Sensa	rer, Disposer (at installation) mit is required for see instructions. Waste Fluir or Marketing to faumer larketers	Off-Specification Used Oil Fuel a. Generator Marketing to Burn b. Other Marketer C. Burner - Indicate devicates Lype of Combustion Device	ner -
a. For own waster only b. For commercial purposes. Mode of Transportation. 1. Air 2. Hair 3. Highway	Type of 1 1 2 2 3 3 1	- incluster devicately - Computation Design Littly School Inclusive Batter Conseller Engage of Imperion Consell	2. Nacius Mar Boiler 2. Nacius Mar Boiler 3. Widestrial Furnace 2. Section Mar Burgary, Who First County Mar Burgary, Who First County Mar Burgary, Who First County Mar Mar Mar Mar Mar Mar Mar Specification	ice in
4. Water 5. Other againty	233=T			100
IX. Description of Regulated W		ll necessary)	TO SECURE WAS THE	
A. Characteristics of Nonlisted Ha	zardous Wastes. Mark 'X' in the (See 40 CFR Parts 261.20 - 261.2		characteristics of nonlisted hazardous	,
× × × × × × × × × × × × × × × × × × ×	Active 4 EPT 6			g m
(D001) (D002) (D002) (D002)	(D 0) (D 0)	1 1	Ombertel for the CP-Toxic contaminant	
B. Listed Hazardous Wastes. (See	40 CFR 261.31 - 33. See instruc	tions if you need to list more	than 12 waste codes.)	
F 0 0 2 U 1	2 2 U 2 2 6			
C. Other Wastes. (State or other wa	astes requiring an I.D. number. S	ee instructions.)		
			6	
X. Certification				
and all attached documents obtaining the information, I i	hat I have personally exami i, and that based on my li believe that the submitted	ned and am familiar win nquiry of those individ information is true, ac ise information, inclu	th the information submitted in fuals immediately responsible curate, and complete. I am aw ding the possibility of fines	e fo vare
signature) Course	Name and Official 1	Titl e (type or print) EN PLANT <u>M</u> ANAGER	Date Signed 3/4/9/	
XI. Comments		en e		2-34° 3

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⊕ EPA №	United States Environmental F Washington, DC 1	20460	Please refer to the Instructions five Filing Notification before completing this form. The Information requests here is required by law (Section 30 of the Resource Concervation and Recovery Act).
For Official Use Only		阿里尔克克斯· 伊克·克斯尔	Makadaman an a
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installation's EP	A ID Number		eceived no. day)
FILD 052	664364 T/A C		of Franklin
I. Name of Installation	LLAR INC		
II. Installation Mailing Addre	ss The American Commence		
	Street	or P.O. Box	
6 9 0 3 / W	PT 24		
• 10 1	City or Town		State ZiP Code
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INAPLEIL	ON		100101
III. Location of Installation	Circal Ar	Route Number	Si an grangement to are so a
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5 1 MP			
	City or Town		State ZIP Code
C			
IV. Installation Contact	WHEN THE PROPERTY OF THE PARTY		
IV. IIISIGIIGIIGII GOTIGOT	A Mark of the Land	Inh MMa)	Phone Number
	Name and Title (last, first, and	job title)	(area code and number)
2			
V. Ownership			B. Type of Ownership
	A. Name of Installation's Legs	al Owner	(enter code)
С			
R D - which d War	te Activity (Mark 'X' in the appro	priate boxes. Refer to in	structions.)
A. Hazardous V		B. Us	sed Oil Fuel Activities
		AL LA L	
1a.Generator 2. Transporter	1b. Less than 1,000 kg/mo.	☐ 6. Off-Specification	
3. Treater/Storer/Disposer	A 233=1		r Marketing to Burner
☐ 4. Underground Injection☐ 5. Market or Burn Hazardo	nun Wacia Eusti	☐ b. Other Ma	
(enter 'X' and mark app	ropriate boxes below)	C. Burner	ed Oil Fuel Marketer (or On site Burner)
a. Generator Marke		Who First Claim	s the Oil Meets the Specification
C. Burner			
	ing of Combustion Device (ente	z X' in all appropriate boxes	to indicate type of combustion devices
VII. Waste Fuel Burning: T in which hazardous waste fue	ype of Combustion bevice (enter) or off-specification used oil fuel is	burned. See instructions 1	or definitions of combustion devices.)
A. Uti	ility Boiler 🔲 B. Industria	l Boiler 🔲 C. Indus	trial Furnace
VIII. Mode of Transportation	on (transporters only - enter 'X'	in the appropriate box(e:	5)
☐ A. Air	☐ B. Rail ☐ C. Highw	ay L. D. Water	L. Other (specify)
IX. First or Subsequent No			The second of the second
Mark 'X' in the appropriate box notification. If this is not your fir	to indicate whether this is your installarst notification, enter your installation's	ELY ID Marines Mare abace	provided below.
A. First Notification	B. Subsequent Notification (complete item C)		C. Installation's EPA ID Number

s						
	, i		C W			T/A
	Hazardous Wastes (co			表后显现外 点		
, Hazardous Waste	s from Nonspecific Sources your installation h	roes. Enter the four-digit	number from 40 CFR Par heets if necessary.	t 261.31 for each	listed hazardous w	aste
1	2	3	4	5		3
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10111	PIOOZ	4116	10	11	-	12
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. Hazardous wasti om specific source:	es from Specific Sources s your installation handles.	. Use additional sheets if	necessary.	11.32 101 9851 1818	IC HAZAI GOUS WASI	
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our installation hand	dles which may be hazard	ous waste. Use additions	al sheets if necessary.	1 201.33 101 (42.31)	CHETTICAL SUDSTATIC	
31	32	33	. 34	35		36
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43	44	45	46	47	7	48
				ПП		
Listed Infectious	Wastes. Enter the four-	digit number 40 CFR Par	261.34 for each hazardor	us waste from hos	pitals, veterinary h	ospitals.
r medical and resear	arch laboratories your instr	allation handles. Use add	ditional sheets if necessary	1.		1 2 2 to
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	of Nonlisted Hazardous Vion handles. (See 40 CFR		ooxes corresponding to th	a characteristics o	of nonlisted hazard	ous
vastes your installat		-	3. Reactive	4. Toxic	e 8 a - a	, i
8	(D001)	(D002)	(D003) T	(D000)		
XI. Certification					Gert Trought, Making	118/23

A



ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY (VERIFICATION)

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER	LLD052664364	REACKNOWLEDGEMENT
	ROUTE 24	RACTOR COMPANY
	MAPLETON	IL 61547
INSTALLATION ADDRESS		

\$EPA

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This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER	*	1,005264364	REACKNOWLED	GEMENT
		ROUTE 24 MAPLETON	CTOR COMPANY IL	615 47
INSTALLATION ADDRESS		ROUTE 24 MARCETON	\$ 1 min	

EPA Form 8700-12B (4-80)

08/14/R1

CATERPILLAR®

Caterpillar Inc.

Mapleton, Illinois 61547

April 1, 2002

Sharon Kiddon Region 5 Notification Program Manager United States Environmental Protection Agency 77 West Jackson Boulevard Chicago, IL 61604-3590 RECEIVED
APR 2 6 2002

RCRA RECURDS ROOM
Waste, Pesticides & Toxics Division
U. S. EPA—REGION 5

RE: 8700-12 Subsequent Notification for ILD0526644364

Dear Ms. Kiddon:

As we discussed on the telephone Thursday, March 28, the address for the USEPA was mistakenly added to the 8700-12 form filed for the Mapleton facility. When the subsequent notification form was sent to the USEPA, Section III was intentionally left empty, as the "Location of Installation" had not changed since the initial notification was filed. I do not know at what point the address was filled in with that of the USEPA.

Please accept the corrected copy of the form attached to this letter. The address shown on this copy in Section III is that of the Mapleton facility.

If you have any questions regarding this matter, I can be contacted at (309) 633-8482. Thank you for your assistance.

Sincerely,

Rebecca Costura

Environmental Engineer

Enclosures

P486652374



Illinois Environmental Protection Agency 2200 Churchill Road, Springfield, IL 62706

217/702-6761

Refer to:

1438050004 -- Peoria County

Caterpillar, Inc. ILD 052864364 RCRA - Permits

May 6, 1988

Caterpillar, Inc. Route 24 Marleton, Illinois

Attn: Environmental Coordinator or

Plant Panager

Dear Sir:

According to Agency files, your facility currently manages hazardous waste in containers and/or tanks subject to the requirements of 35 IAC 709-725. 35 IAC 703,157(f) states that interim status for any hazardous waste storage or treatment facility will be terminated November 8, 1992, unless the facility submits Part B of the RCFA permit application for these units to this Agency by Movember 8, 1988. This letter is written to (1) make you aware of this requirement and (2) describe the actions which must be taken in response to this requirement.

According to 35 IAC 703.157(f), if an existing facility desires to (1) store hezardous waste on-site for greater than ninety (90) days, (2) treat hezardous waste, or (3) store hazardous waste as a commercial facility after Hovember 8. 1992, it must submit Part 8 of the RCRA permit application to this Agency by November 8, 1988. The information which must be contained in this application is described in 35 IAC 703, Subpart D. The enclosed document, entitled "RCRA Permit Guidance" provides more detail regarding the necessary centents of the application and also identifies several suidence documents which will be useful in developing the application. Also included in this document is the form which must be used when submitting the application.

If a facility does not desire to continue storing and/or treating hazardous waste after November 6, 1992, it must close the storage and/or treatment unit(s) present at the facility prior to this date. Closure, in this instance, basically means that all contamination must be removed from the unit(s) and if necessary, from the area surrounding these units. The requirements which must be met in closing these units are contained in 35 LAC 725, Sulpart 6. For you convenience, guidance for the development of a closure plan is contained in the enclosed document entitled "Instructions for the Preparation of Closure Plans for Interio Status RCRA Nazardous Waste Facilities." PLEASE NOTE THAT A CLOSURE PLAN DOES NOT NEED TO BE SUBMITTED AT THIS TIME. IT MUST HOMEVER, BE SUBHITTED TO THE MERCY NO LATER THAN MAY S. 1992.



Page 2

In some instances, there may be several interim status lazardous waste management units at a facility. The facility may desire to pursue a final RCRA permit for a portion of these units and close the rest of them. Because of the encertainty associated with this option, all interim status units at a facility must be included in Part 8 of the RCRA permit application, unless a closure plan for the units being closed is submitted with the Part B. If a closure plan is submitted with the Part B, the application need only address these units which will remain in operation.

The only alternatives available for hazardous waste treatment and storage facilities to meet the requirements of 35 IAC 703.157(f) are (1) submit Part B of the RCRA permit application by November 8, 1988 or (2) close by November 8, 1992. However, some facilities may have previously filed Part A of the RCRA permit application in error and now feel that the hazardous waste management activities carried out at the facility de not require a RCRA permit (i.e. the Part A was filed for protective measures). If this is the case, the Agency requests that information supporting this position be submitted no later than Hovember 8, 1988. The Agency can then review the information submitted and correct its records accordingly. The information which must be submitted to make this demonstration is contained in the enclosed document entitled "Facility Part A Withdrawal Request Form."

Finally, some facilities may have closed or are currently closing in accordance with an IEPA approved closure plan. (Please bear in mind this letter is going out to over 200 facilities; some closed facilities may inadvertently receive this letter.) In this instance, the Agency requests that a copy of (1) the closure plan approval letter and (2) the letter from the Agency accepting the certifications of the owner/operator and the rgistered professional engineer that closure was carried est in accordance with the approved closure plan (if closure has been completed) be submitted by November 8, 1988. The Agency will again be able to review this information and correct its records accordingly.

Secause of the large number of facilities subject to the requirements of 35 IAC 703.157(f), the Agency requests that all facilities receiving this letter complete the enclosed form entitled "RCRA Permit Information Form." The form has been developed such that it can be used by a facility falling into any of the five categories described above (pursuing a final persit, planning to close, pursuing a permit for only a portion of the interim status units and closing the other units, protective filers, closed in accordance with an IEPA approved closure plan). This form must be submitted to the Agency no later than Hovember 8, 1988, along with all required attachments. Failure to do so may subject a facility to enforcement under State and/or Federal regulations and possible mometary penalties up to \$25,000 per day of noncompliance.



Page 3

The RCRA Permit Information Form and all required attachments must be submitted in triplicate (original and two (2) copies) to the following address:

Permit Section, RURA Unit Division of Land Poliution Control Illinois Environmental Protection Agency 2200 Churchill Road P.O. Box 19276 Springfield, IL 62794-9276

If you have any questions regarding this letter, please contact Jim Moore at 217/782-9875.

Very truly yours.

Laurence W. Eastep, P.E., Manager Permit Section Division of Land Pollution Control

LNE: JKN: dks/12361/12441/1-3

Enclosures.

cc: Division File Compiliance Peerta Region USPEA Region Y

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NAME & OFFICIAL TITLE (type or print)

R. L. Claussen

DATE SIGNED

Plant Manager

EPA Form 8700-12 (6-80) REVERSE

SIGNATURE

SEPA		ON OF HAZARDOUS WASTE ACTIVITY	INSTRUCTIONS: If you received a preprinted
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E. CHARACTERISTICS OF NON hazardous wastes your installat				ponding to the characteri	stics of non-listed
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Pol Cla	usser-	R. L. Cla	aussen - Pi	lant Manager	8-14-80

EPA Form 8700-12 (6-80) REVERSE

CAPTRIBLE.



CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

February 1, 1984

Mr. William H. Miner Chief, Technical, Permits & Technical Section USEPA - Region V 230 South Dearborn Street Chicago, IL 60604

Dear Mr. Miner:

REF: 5HW-12

Part A Amendment Letters
Caterpillar Tractor Co.
ILS 052664364 G, TSO, -PA

This letter is in reply to your letter dated December 14, 1983, requesting further information.

The "biological treatment of phenolic waste" referred to in our letter dated October 10, 1983, has been in operation since February, 1980. This waste is from a tooling cleaning operation. The waste is stored in a tank and fed into an activated sludge system at a controlled rate. The effluent of that system is discharged to the Illinois River as part of our NPDES permitted discharge.

In our letter dated October 24, 1983, the reference should read 721.106 (a) (2). The slag is sold to a scrap metals dealer, for the purpose of reclaiming metal from the slag. An analysis of the slag is attached to this letter.

Sincerely,

R. L. Claussen Plant Manager

m1

Telephone: 309-675-8601

Attach.

Q-13-84

REGEIVED

WASTE MANAGEMENT

Daily Analytical Laboratories

Eugene J. Daily, Chairman John P. Higgins, President Otis E. Michels, Vice President

7807 N. Pioneer Lane • Peoria, Illinois 61615 Tel. 309-692-5252

TO: Caterpillar Tractor Company			DATE RE	_ DATE RECEIVED10-6-83		
Mapleton Facility	CLIENT P.O. #					
Mapleton, IL 6154	D/A PRO	D/A PROJECT #		5208.00		
14 T D 1					10-14-83	
D/A SAMPLE NO.		3279-39				
SAMPLE DESCRIPTION		Slag				
SAMPLE DATE		As Received 10-5-83	•			
Cyanide	ma /1-a	2.8				
Phenol	mg/kg	< 0.80				
Sulfide	mg/kg					
pH		7.1	****			
Ash	%	99.9%			<u> </u>	
TOTAL METALS	/0	22.278				
Arsenic	mg/kg	6.5				
Barium	mg/kg	4.0				
Cadmium	mg/kg					
Chromium	mg/kg					
Copper	mg/kg		*******			
Lead	mg/kg		* *-	****		
Nickel	mg/kg	1,300				
Mercury		< 0.01				
Selenium	mg/kg					
Silver	mg/kg				***************************************	
Zinc	mg/kg	17				

abbreviated report sheet

Analysis Certified By:

James F. Dallmoyer, Laboratory Director

Analysis and Testing shall be performed in accord with U.S. EPA's current manual of practice or with other procedures acceptable to U.S. LPA and ILPA.

Daily Analytical Laboratories

7807 N. Pioneer Lane • Peoria, Illinois 61615 Tel. 309-692-5252



Eugene J. Daily, Chairman John P. Higgins, President Otis E. Michels, Vice President James F. Dallmeyer Laboratory Director

			DATE RECEIVED10-6-83			
			CLIENT P.O. #			
			D/A PROJECT #			
D/A SAMPLE NO. 3279-39						
SAMPLE DESCRIPTION		Slag E.P. TOXICITY				
SAMPLE DATE	······································					
E.P. Toxicity						
Arsenic	mg/1	< 0.001				
Barium		0.06				
Cadmium	mg/1	< 0.01				
Chromium	mg/1	< 0.01				
Lead	mg/1	< 0.05				
Mercury	mg/1	< 0.0001				
Selenium	mg/1	< 0.001				
Silver	mg/1	< 0.01				

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abbreviated report sheet						

Analysis and Testing shall be performed in accord with U.S. EPA's current manual of practice or with other procedures acceptable to U.S. EPA and IEPA.

Analysis Certified By:

James F. Dallmeyer, Laboratory Director

DEC 1 4 1983

Mr. Ronald L. Claussen Plant Manager Caterpillar Tractor Company Route 24 Mapleton, Illinois 61547

> Re: Part A Amendment Letters Caterpillar Tractor Company ILD 052664364

Dear Mr. Claussen:

This letter is to acknowledge your letters dated October 10, 1983, and October 24, 1983, concerning amendments to your Part A permit application. Your amendment requests did not contain sufficient information to enable this office to concur with your determination. Specifically, we need detailed explanations of the following:

- (1) With regard to the letter dated October 10, 1983, please describe the present treatment system, how long it has been in use, the source of the waste, and the fate of the treated waste.
- (2) With regard to the letter dated October 24, 1983, we interpret your citation to mean section 721.106(a)(2), instead of section 725.106(a)(2). Please provide a detailed chemical and physical analysis of the slag, and also describe what happens to this material after it leaves your premises.

We will take no further action on your requests until we receive this information.

If you have any questions, please contact Mr. David Dolan of my staff at (312) 886-0994.

Sincerely yours,

ORIGINAL SIGNED BY WILLIAM H. MINER

William H. Miner, Chief Technical, Permits, and Technical Section

SHIVE DEPOST AUTHOR STU #1 STU #2 STU #3 TPS WMB CHIEF DEPOSITION DATE 12-13-13 by NEW MINISTRA



CATERPILLAR



East Peoria, Illinois 61630

11 June, 1993

Carrie L. Rapp
Permit Section - Bureau of Land
Illinois Environmental Protection Agency
2200 Churchill Road
P.O. Box 19276
Springfield, IL 62794-19276

JUN 1 6 1993

IEPA - BOL PERMIT SECTION

Subject: Caterpillar Inc. East Peoria Plant
Part A RCRA Permit Application

Dear Ms. Rapp,

Caterpillar Inc. would like to modify the Part A RCRA Permit Application Form for the East Peoria Plant. As requested in your letter dated June 7, 1993, the changes outlined below have been completed on the new form.

Form 8700-23 Item V

Name changed.

Item XII

Hazardous waste pile has been added.

Item XIV

S03 Process code has been added.

Item XVIII Na

Name changed.

Three copies of the modified Part A RCRA Permit Application are enclosed.

If you should have any questions please contact me at 309-675-2207.

E. Erich Michelfelder

E. Erich Michelfelder Environmental Engineer Caterpillar Inc. East Peoria (309) 675-2207

For EPA Registres			For State Use Only
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All, Process in Codes and Design Capacities

- A PROCESS CODE. Finds the code from the list of process codes below that best describes each process to be used at the facility.

 I washe these are provided for entiring codes. If more times are needed, attach a separate sheet of paper with the additional information. It a process will be used that is not included at the list of codes below, then describe the process (including its design capacity) as the apack provided in time XII.
- B. PROCESS DESIGN CAPACITY: For each code entered in column A enter the capacity of the process.

 1. AMOUNT: -Eiter the amount, in a case where design capacity is not applicable (such as in a closure/post-closure or entercement eatien) enter the total amount of easte for that process unit.

 2. UNIT OF MEASURE: For each amount entered in column B(1), enter the code from the list of unit measure codes below that clear the anit of measure that are listed below should be used.
- C. PROCESS TOTAL NUMBER OF AUNITS Enter the boar number of units used with the corresponding process code.

PROCE CODE	SS PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	UNIT OF MEASUI MEASURE CODE	F RE
D79 D80 D81 D82 D83 S01 S02 S03 S04	DISPOSAL: INJECTION WELL LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT STORAGE: CONTAINER (barrel, drum, etc.) TANK WASTE PILE SURFACE IMPOUNDMENT IREATMENT: TANK SURFACE IMPOUNDMENT	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY ACRE-FEET OR HECTARE-METER ACRES OR HECTARES GALLONS PER DAY OR LITERS PER DAY GALLONS OR LITERS GALLONS OR LITERS GALLONS OR LITERS CUBIC YARDS OR CUBIC METERS GALLONS OR LITERS GALLONS OR LITERS GALLONS PER DAY OR LITERS PER DAY GALLONS PER DAY OR LITERS PER DAY	GALLONS G GALLONS PER HOUR E GALLONS PER DAY U LITERS L LITERS PER HOUR H LITERS PER DAY V SHORT TONS PER HOUR D METRIC TONS PER HOUR W SHORT TONS PER DAY N METRIC TONS PER DAY N METRIC TONS PER DAY S POUNDS PER HOUR J	
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XIV. Description of Hezerdous Wastes

- A EPA HAZARDOUS WASTE NUMBER'S Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes in the four-digit number(s) from 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describer the characteristics and/or the todo contaminants of those hazardous wastes.
- B. ESTILATED ANNUAL QUANTITY of Search stated waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each this claristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	к
TONS	r	METRIC TONS	м

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For ilsted hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 2 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Hem XII A, on page 3 to Indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that processes that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- 1. Enter the first two as described above.
- 2. Enter "000" in the extreme right box of item XIV-D(I).
- 3. Enter in the space provided on page 7, Item XIV-E, the fine number and the additional code(s).
- PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

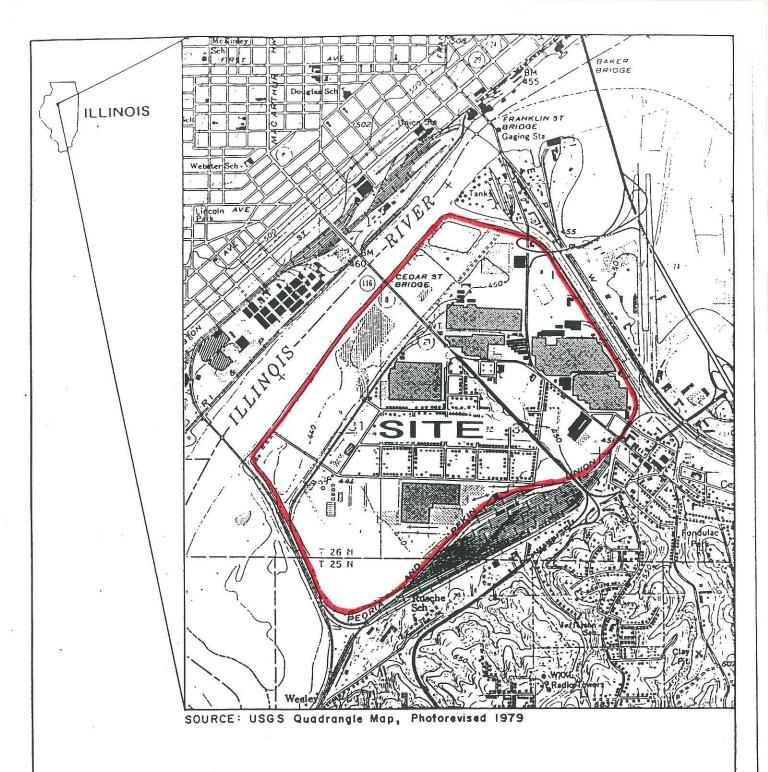
- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

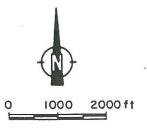
EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

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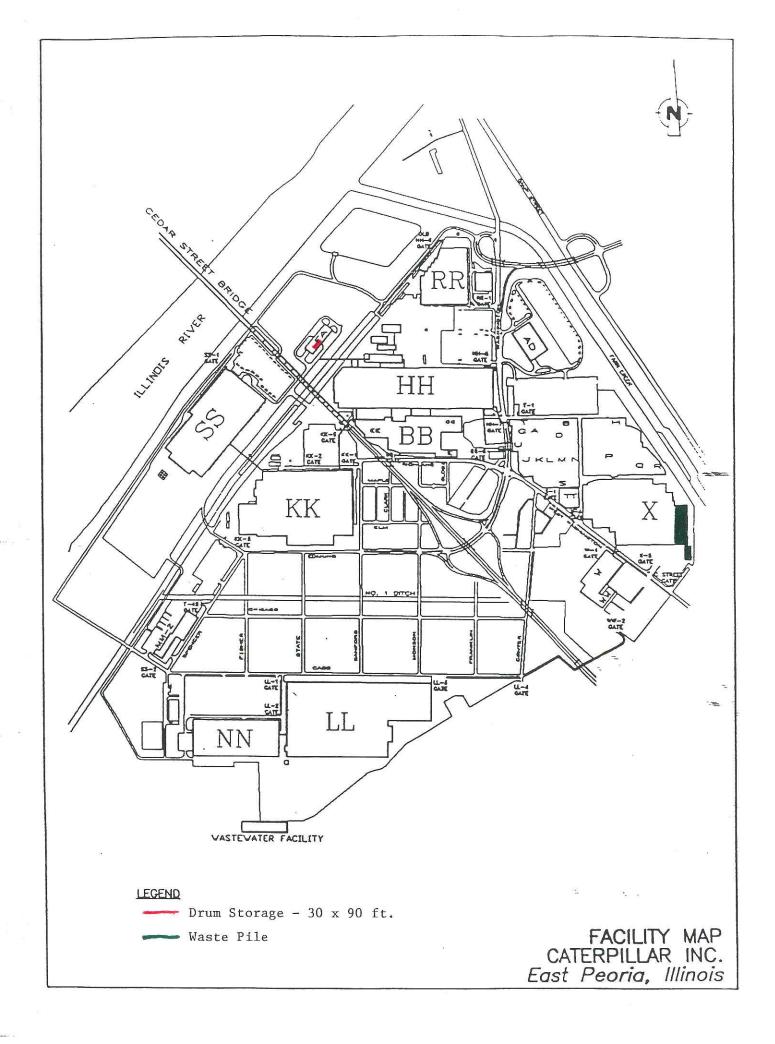
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SITE LOCATION CATERPILLAR INC. East Peoria, Illinois



Information Concerning Items In Section XIV EPA Form 8700-23 (01-90)

Many wastes are not handled on a regular basis by this storage facility. There is a chance however, that storage of these materials will sometimes be necessary. For this reason, no estimated annual quantity can be stated.

Section XIV, column A, item 33, EPA Form 8700-23 (01-90)

No EPA hazardous waste code was specified for this item because it is contaminated environmental media. Caterpillar does not believe that this material is a hazardous waste, but we are managing the soil as a hazardous waste because it contains a hazardous constituent. This is an application of the "contained-in rule", therefore the mixture rule and derived-from rules do not apply. Management of the contaminated media as a hazardous waste will cease once the hazardous constituents are removed. Removal of the hazardous constituents is being handled through an IEPA approved Closure Plan titled "Closure Plan, Building X Soil Staging Area, dated September 25, 1992".



Mapleton, Illinois 61547

April 16, 1985

RCRA Activities P. O. Box 43587 Chicago, IL 60690

Dear Sir:

Revised Part A Application - Mapleton Caterpillar Tractor Co.

ILD052664364 C, TSD, PA

In our letter of December 21, 1984, we sent a revised application as referenced above. Please find enclosed a second replacement for Page 3, the first having been sent with our letter dated January 22, 1985.

This replacement page removes the SO2 treatment codes from the first two (2) items on the list, under the exemption for waste water treatment plants found in Section 725.101c10 of the Illinois Rules and Regulations.

Sincerely,

Plant Manager Mapleton Plant

RLClaussen (309) 675-8601 kw

Attach.

cc: Dave Jansen - IEPA

RECEIVED
APR 2 3 1985

WMD-RAIU EPA, REGION V

(ILD 052664 364



CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

January 22, 1985

RCRA Activities P. O. Box 43587 Chicago, IL 60690

Dear Sir:

Revised Part A Application - Mapleton Caterpillar Tractor Co. ILD052664364 - G TSD, PA

In our letter of December 21, 1984, we sent a revised application as referenced above. Please find enclosed a replacement for Page 3. The original contained a typographical error.

Sincerely,

Environmental Engineer Mapleton Plant

CFrench

Telephone: (309) 675-8425

LIV

Attach.

cc: Larry Eastep, IEPA

EPE, REGION V

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December 21, 1984

CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

December 21, 1984

WASTE BRANCH

Mr. William H. Miner, Chief Technical, Permits, and Compliance Section USEPA Region 5 230 S. Dearborn Street Chicago, IL 60604

Dear Mr. Miner:



WMD-RAIU EPA, REGION V

RCRA Part A Permit Application - Mapleton Caterpillar Tractor Co. ILD052664364 GJTSD, PA

In response to your letter dated November 26, 1984, we enclose one (1) copy of our updated Part A Permit Application. Our Part A Application was originally filed on November 14, 1980. This update is made to clarify the paperwork involved. Changes made to the Application result from additions/deletions covered in previous letters and from increased knowledge of the hazardous wastes generated at the Mapleton Plant.

As requested in your letter, a map of the Mapleton Plant showing the location of the hazardous waste storage building is included in the application.

The Mapleton Plant does not have any hazardous waste storage tanks in use. At the time the original application was filed, a tank was used to store phenolic wastewater, prior to treatment or disposal. This handling system has been removed. Please remove the storange tank (SO2) of 500 gallon capacity from our application.

Sincerely,

Mapleton Plant

RLC1aussen (309) 675-8601

Attach.

cc: Larry Eastep, IEPA

Please print or type in the unshaded areas only ffill—in areas are spaced for elite type, i.e., 12 characte finch.	-	TO THE			Form Approved OMB No. 15	8-R01	75	
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III. FACILITY NAME	/	1	1/		through it and enter the co- appropriate fill-in area belo	w. Al	so, i	f any of
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INSTRUCTIONS: Complete A through J to determine w	heth	er vo	u need to	submit any permit application	forms to the EPA. If you answ	ver "y	es" t	o any
questions you must submit this form and the supplement	tal fo	rm li	sted in the	e parenthesis following the ques	stion. Mark "X" in the box in 1	he thi	rd co	olumn
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SPECIFIC QUESTIONS	YES		K'X' FORM ATTACHED	SPECIFIC G	and the first particular to the second			K'X' FORM ATTACHED
A. Is this facility a publicly owned treatment works			ATTACHED	B. Does or will this facility			X	
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C. Is this a facility which currently results in discharges	16	17	18	D. Is this a proposed facility	(other than those described	19	20	21
to waters of the U.S. other than those described in A or B above? (FORM 2C)	22	X 23	24	waters of the U.S.? (FOR		25	X 26	27
E. Does or will this facility treat, store, or dispose of				municipal effluent below	t at this facility industrial or the lowermost stratum con-		X	4,13
hazardous wastes? (FORM 3)	X	29	X 30	taining, within one qua underground sources of d	rter mile of the well bore, rinking water? (FORM 4)	31	32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface		y-			t at this facility fluids for spe- ining of sulfur by the Frasch	- 1		
in connection with conventional oil or natural gas pro- duction, inject fluids used for enhanced recovery of		X		process, solution mining	of minerals, in situ combus- overy of geothermal energy?	=JA 11	X	
oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)	34	35	36	(FORM 4)		37	38	39
Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the in-				NOT one of the 28 inde	d stationary source which is ustrial categories listed in the	# T II		
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VII. SIC CODES (4-digit, in order of priority)		
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VIII. OPERATOR INFORMATION	11 16 20 20 19	
A. N.	AME	B. Is the name listed In
		Item VIII-A also the owner?
8 CATERPILLAR TRACTOR	COMPANY	YES 🗆 NO
15 16		95
C. STATUS OF OPERATOR (Enter the appropriate letter into		D. PHONE (area code & no.)
F = FEDERAL M = PUBLIC (other than federal or state) S = STATE O = OTHER (specify)	P (specify)	A 3 0 9 6 7 5 1 0 0 0
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26 F. CITY OR TOWN	G.STATE H. ZIP	CODE: IX, INDIAN LAND
		Is the facility located on Indian lands?
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X. EXISTING ENVIRONMENTAL PERMITS		
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9 R A.P.P.L.I.E.D.FOR.IN 1980 9 15 15 15 17 18		0
XI, MAP		
Attach to this application a topographic map of the area ex		
the outline of the facility, the location of each of its exist	ing and proposed intake and disc	charge structures, each of its hazardous waste
treatment, storage, or disposal facilities, and each well who water bodies in the map area. See instructions for precise rec		Include all springs, rivers and other surface
	yan siligilis.	
XII. NATURE OF BUSINESS (provide a brief description)		
The Mapleton Plant of Caterpillar Tract		
castings solely for Caterpillar's use i	n the production of en	gines and heavy equipment.
MANUAL MILITAL TALLY MANUAL OF COMPANY OF COMPANY	T IDDITAL MATALA	a matrix out warrants at 1000
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XIII. CERTIFICATION (see instructions)		
And the state of t		
I certify under penalty of law that I have personally examination attachments and that, based on my inquiry of those per		
application, I believe that the information is true, accurate	e and complete. I am aware that	
false information, including the possibility of fine and impr		
A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
R. L. Claussen - Plant Manager	$\neg D \neq (\land (\land))$	ne 12-21-87
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COMMENTS FOR OFFICIAL USE ONLY	STAR WINDOW SHOWN SHARE STOCKS STARTS SHARE SHARE SHARE	
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III. PROCESSES (continued)			AND SHARE		
C. SPACE FOR ADDITIONAL PROCESS CO INCLUDE DESIGN CAPACITY.	DES OR FOR DESCRIBING	OTHER PROCESSES (code	"T04"). FOI	R EACH PROCESS E	NTERED HERE

IV. DESCRIPTION OF HAZARDOUS WASTES

- A. EPA HAZARDOUS WASTE NUMBER Enter the four—digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four—digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non—listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE C	ODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

	A. EPA HAZARD. B. ESTIMATED ANNUAL					C. UNIT		D. PROCESSES											
LINE NO.	W	AS	TE	NO de)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	S	URE enter ode)				1. P	R	OCE (er		s co	DE	5		2. PROCESS DESCRIPTION (if a code is not entered in D(1))
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X-3	D	0	0	1	100		P	T	0	3	D	8	0						
X-4	L	0	0	2											1	1			included with above

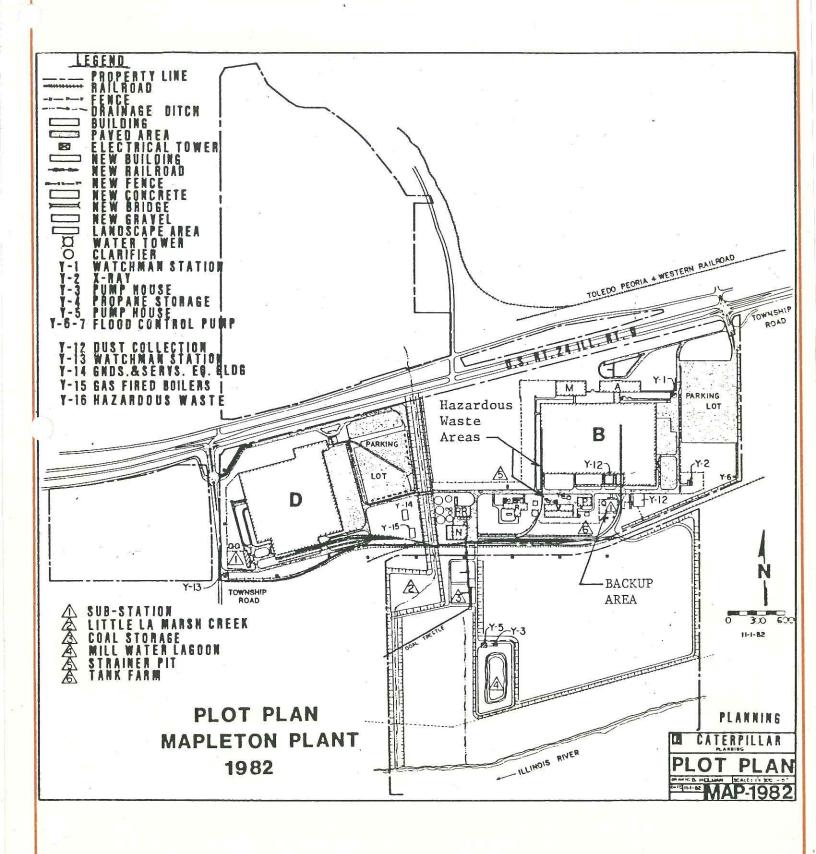
EPA Form 3510-3 (6-80)

R. L. Claussen, Plant Manager

PAGE 4 OF 5

CONTINUE ON PAGE !

12-21-8



VI. Refer to original filing dated November 14, 1980, for photographs and marked USGS maps.

R.L. Claussen, Plant Manager Caterpillar Tractor Company Mapleton, Illinois 61547

> Re: Revised Part A Permit Application Caterpillar Tractor Company ILD 052664364

Dear Mr. Claussen:

In response to your request of February 1, 1984, we have deleted the biological treatment of phenolic wastes (TO1) and the treatment of slag containing calcium carbide (TO4) from your Part A permit application. These processes are exempt from the treatment and storage provisions of the Resource Conservation and Recovery Act according to 40 CFR §265.1(c)(10) and §261.6(a), respectively.

Your request of July 11, 1984, proposed the addition of a new building to be used to store wastes that are now located in the facility's storage yard. According to Ms. Cary French of your staff, the change does not constitute a change in the facility's storage capacity; the container storage capacity (SO1) would remain at 33,000 gallons, and the tank storage capacity (SO2), at 500 gallons. Ms. French also said that the storage in tanks (SO2) had been deleted from the Part A permit application in August, 1983, but our records show no such deletion. Please explain the uses and capacities of any hazardous waste storage tanks at your facility.

Before we can include the proposed building in your Part A permit application, we need to know the exact location of the building on your property. Please provide us with a revised Part A permit application (enclosed), which includes a map of your facility.

Feel free to contact Ann Brash, at (312) 886-1476, if you have any questions regarding this matter.

Sincerely yours,

William H. Miner, Chief Technical, Permits, and Compliance Section

cc: Larry Eastep, IEPA

5HW-12:A.Brash:fr:10/24/84:rev.11/19/84

TYPIST AUTHOR STU AT STU #2 STU #3 TPS WMB WMD CHIEF DIRECTOR

(F)

CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

July 11, 1984

USEPA Region V RCRA Activities P. O. Box 7861 Chicago, IL 60680

Dear Sir:

EPA I. D. No. ILD052664364 G, TSD, PA

In our letter dated November 14, 1980, the Mapleton Plant filed Part A of the Hazardous Waste Treatment Permit Application. We wish to add a new storage building to that application.

Building "Y-16" is a metal building located on a concrete slab, with complete curbs. The building is sized to store approximately five hundred (500) drums.

Sincerely,

R. L. Claussen

Plant Manager

m1

Telephone: 309-675-8601

cc: IEPA - DLPC

RECEIVED

AUG 1 4 1984

WMD-RAIU EPA, REGION V

	CONVERSATION	RECORD	TIME 10:10	DATE 10/1	/84
TYPE	┌ VISIT	CONFERENCE	TELEPHONE		ROUTING
		phone call		INCOMING	NAME/SYMBOL INT
	/isit/Conference:			OUTGOING	-
NAME OF PER WITH YOU	son(s) contacted or in contact Cary French	organization (office etc.) Caterpillar		10NE NO. 75-8425	
	Doub & D		005 0	70 0420	-
SUBJECT	Part A Revision				
			A CONTRACTOR OF THE CONTRACTOR		
SUMMARY	The facility wants will be stored is the stored is the stored outside to be located outside. No building will be is on the same property.	ne same as that on iter stores anything ite; they will now us constructed: it is	the Part A.: abo in tanks. All o se a metal build already in exis	ut 33000 f the dru ing to st	gallons. ms used ore them.
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-	Alternative Control of the Control o	and and the state of the state	and the second s		
		· · · · · · ·			
		4			
ACTION RE	QUIRED				
NAME OF PE	RSON DOCUMENTING CONVERSATI	ON SIGNATURE		DATE	
	Ann Brash			10/1	/84
ACTION TA	KEN			10/1/	
SIG***TURE		TITLE	And the second s	DATE	

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU DAVID JANSON SUBJECT ORGANIZATION (Office, dept. etc.) L EPA SUBJECT	dding storacection and lere removed	etter to from the	EPA Part A;	!NT
Outgoing phone call Location of Visit/Conference: NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU David Janson SUBJECT Part A Revision SUMMARY Mr. Janson felt that the company would be a 500 drums. He also said that as of an inspon August 19, 1983, the TOI and SO2 codes whe said that because these were part of a well-also said the said that because these were part of a well-also said the said that because these were part of a well-also said the said that because these were part of a well-also said that so said that because these were part of a well-also said that so said that because these were part of a well-also said that so said that because these were part of a well-also said that so s	dding storacection and lere removed	OUTGOING ONE NO. 36-6892 Je capact etter to from the	ty of EPA Part A;	INT
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU David Janson SUBJECT Part A Revision SUMMARY Mr. Janson felt that the company would be a 500 drums. He also said that as of an inspon August 19, 1983, the TOI and SO2 codes whe said that because these were part of a weight of the said that because these were part of a weight of the said that because these were part of a weight of the said that because these were part of a weight of the said that because these were part of the said that because these were part of the said that because the said that because the said that as of the said that because the said that as of the said that because the said that because the said that as of the said that because the said that as of the said that because the said that a said that a said that because the said that a said that a said that a said that because the said that a said that a said that because the said that a said that a said that because the said that a said that a said that because the said that a said that because the said that the said that because the said that the s	dding storacection and lere removed	one no. 36-6892 The capaciteter to from the	EPA Part A;	
SUMMARY Mr. Janson felt that the company would be a 500 drums. He also said that as of an inspon August 19, 1983, the TO1 and SO2 codes whe said that because these were part of a w	ection and lere removed	etter to from the	EPA Part A;	
500 drums. He also said that as of an insp on August 19, 1983, the TO1 and SO2 codes w he said that because these were part of a w	ection and lere removed	etter to from the	EPA Part A;	
				-
				-
				
ACTION REQUIRED				
NAME OF PERSON DOCUMENTING CONVERSATION SIGNATURE		DATE		
Ann Brash				
ACTION TAKEN				
SIC" TURE TITLE		DATE		

G

CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

October 10, 1983

RECEIVED

USEPA Region V RCRA Activities P. O. Box 7861 Chicago, IL 60680

WASTE MANAGEMENT BRANCH EPA, REGION V

Dear Sir:

EPA ID No. ILD052664364 PAJG, TSD

In our letter dated November 14, 1980, the Mapleton Plant filed Part A of the Hazardous Waste Treatment Permit Application. We wish to delete the following item, pursuant to section 725.101 (c) (10) of the 35 Illinois Administrative Code:

Treatment Process Process Cost Amount Unit of Measure Code

Biological Treatment of Phenolic Waste T01 20 U (Originally filed as G)

Very truly yours,

R. L. Claussen Plant Manager

m1

Telephone: 309-675-8601

cc: R. E. Schwab T. C. Mayer IEPA/DLPC



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Mapleton, Illinois 61547

October 24, 1983

RECEIVED

USEPA Region V
RCRA Activites
P. O. Box 7861
Chicago, IL 60680

NOV 0 2 1983
WASTE MANAGEMENT BRANCH
EPA, REGION V

Dear Sir:

EPA ID No. ILD052664364 PA, G, TSO

In our letter dated November 14, 1980, the Mapleton Plant filed Part A of the Hazardous Waste Treatment Permit Application. We wish to delete the following item, pursuant to section 725.106 (a) (2) of the 35 Illinois Administrative Code:

Treatment Process
Process Cost
Amount
Unit of Measure Code
Description of Process

Other TO4 12,459 Liters/Day V

Treatment of slag containing calcium carbide.

Very truly yours,

R. L. Claussen Plant Manager

m1

Telephone: 309-675-8601

cc: R. E. Schwab

T. C. Mayer IEPA/DLPC



3 2 2 5 1 2

CERTIFIED
P 274 203 409
M AIL



RECEIVED

JUN 24 1982

WASTE MANAGEMENT BRANCH EPA, REGION V

Mapleton, Illinois 61547

June 18, 1982

g, TSD, PA

E.P.A. Region V R.C.R.A. Activities P. O. Box 7861 Chicago, IL 60680

Dear Sir:

E.P.A. I.D. No. ILD052664364 Amis

In our letter dated November 14, 1980, the Mapleton Plant filed Part "A" of the Hazardous Waste Treatment Permit Application. We wish to make the following addition to that application:

Treatment Process

Other

Process Code

T04

Amount

- 12,459 Liters/Day

Unit Of Measure Code

Description Of Process -

Foundry slag containing calcium carbide is exposed to water to hydrolyze it and render the slag non-hazardous for disposal.

Your prompt attention to this matter will be greatly appreciated.

Very truly yours,

Claussen

Plant Manager

Telephone: (309) 675-8601

bkn

cc: Mr. C. H. Meurer

Mr. S. C. Hoffman

Mr. S. J. Beyers

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Mapleton, Illinois 61547

March 10, 1982

E.P.A. Region V R.C.R.A. Activities P. O. Box 7861 Chicago, IL 60680

Dear Sir:

gmo

E.P.A. I.D. No. ILD052664364

In our letter dated November 14, 1980, the Mapleton Plant filed Part "A" of the Hazardous Waste Permit Application. At that time, we included a "TO4" treatment process at a rate of 500 liters per day.

In view of the rule change regarding mixtures of solid and hazardous wastes as printed in the November 17, 1981, Federal Register, this treatment process is no longer covered by R.C.R.A. Please remove this item from your consideration of our permit application.

Your prompt reply concerning this matter will be greatly appreciated.

Very truly yours,

Plant Manager

Telephone: (309) 675-8601

bkn

cc: Mr. W. W. Dodge

Mr. S. J. Beyers

Mr. S. C. Hoffman

WASTE MANAGEMENT BR EPA, REGIO TOTAL

Mapleton, Illinois 61547

November 14, 1980

E.P.A. Region V R.C.R.A. Activities P. O. Box 7861 Chicago, Illinois 60680

Dear Sirs:

Attached is our Part A Application for a hazardous waste permit for the Mapleton Plant.

The E.P.A. Identification Number is ILD0052664364.

Very truly yours,

Donald F. Domnick Vice-President

Telephone: (309) 675-5861

bkn

Attachment

Please print or type in the unshaded areas only [fill—in areas are spaced for elite type, i.e., 12 characters linch	J.				Form Approved OMB No. 15	8-R0	175	163
r & relat				LASTICAL	EPA I.D. NUMBER			E/ALC
Co Co	nsolie	dated i	Permits P	rogram	F I L D 0 0 5 2 6	6 4	3	640
GENERAL (Read the "C	Jener	al Inst	ructions"	before starting.)	GENERAL INSTRU	JCTIC	ONS	13 14 1
EPA I.D. NUMBER	/	//	11,	1/////	If a preprinted label has be it in the designated space. I			
III. FACILITY NAME	1	10	10	xxxxxxx	ation carefully; if any of it through it and enter the c	is inc	corre	ct, cross
III. FACILITY NAME	N	COL	301	66XXXX/	appropriate fill—in area belo the preprinted data is abser	w. A	Iso, i	f any of
V FACILITY	1	//	//	111111	left of the label space list	ts the	info	rmation
MAILING ADDRESS PLASE PLA	CE	LAE	BEL IN	THIS SPACE	that should appear), please proper fill-in area(s) below	w. If	the	label is
111111111111111111111111111111111111111	/	1	//	111111	complete and correct, you Items I, III, V, and VI (6			
FACILITY	1	/,	11	111111	must be completed regarditems if no label has been	less).	Com	plete all
VI. LOCATION	/	//	1)	11/1/11	the instructions for detail tions and for the legal au	led i	tem	descrip-
	//	//	1/1	1////	which this data is collected.	itioi ia	acio	is endo
II. POLLUTANT CHARACTERISTICS							W.	
INSTRUCTIONS: Complete A through J to determine w	vheth	er you	need to	submit any permit application	forms to the EPA. If you answ	ver "y	es" t	o any
questions, you must submit this form and the supplemen if the supplemental form is attached. If you answer "no"	tal fo	rm lis	ted in the	e parenthesis following the quest	tion. Mark "X" in the box in	the th	ird co	olumn Stivity
is excluded from permit requirements; see Section C of the	instr	uction	s. See als	o, Section D of the instructions	for definitions of bold-faced	terms		
SPECIFIC QUESTIONS	<u> </u>	MARK	('X'	SPECIFIC QU				K'X'
	YES	NO	FORM	B. Does or will this facility (e		TES	NO	ATTACHE
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.?	4.8	77		include a concentrated as	nimal feeding operation or facility which results in a		37	
(FORM 2A)	16	X 17	18	discharge to waters of the	J.S.? (FORM 2B)	19	X 20	21
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in		X		D. Is this a proposed facility in A or B above) which w	(other than those described will result in a discharge to		Х	
A or B above? (FORM 2C)	22	23	24	waters of the U.S.? (FORM F. Do you or will you inject	12D)	25	26	27
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		1		municipal effluent below	the lowermost stratum con-			
ildzaludus wastes: (i Olivii O)	X 28	29	X 30	underground sources of dr	ter mile of the well bore, inking water? (FORM 4)	31	X 32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface		20	- 30	H. Do you or will you inject				
in connection with conventional oil or natural gas pro- duction, inject fluids used for enhanced recovery of				process, solution mining	ning of sulfur by the Frasch of minerals, in situ combus-			117.5
oil or natural gas, or inject fluids for storage of liquid		X		tion of fossil fuel, or reco	overy of geothermal energy?		X	
hydrocarbons? (FORM 4) 1. Is this facility a proposed stationary source which is		35	36	J. Is this facility a proposed		37	38	39
one of the 28 industrial categories listed in the in- structions and which will potentially emit 100 tons					strial categories listed in the II potentially emit 250 tons			
per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an		X		per year of any air polluta Air Act and may affect or	nt regulated under the Clean be located in an attainment	me	X	10/77
attainment area? (FORM 5)	40	41	42	area? (FORM 5)		43	44	45
III. NAME OF FACILITY				, , , , , , , , , , , , , , , , , , , 		T		
1 SKIP C. A. T. E. R. P. I. L. L. A. R. T. R. A	. C.	T, 0.	R, C	O, M, P, A, N, Y,		69		
IV. FACILITY CONTACT								
A. NAME & TITLE (last, fi				В.	PHONE (area code & no.)			
2 R. L. C. L. A. U. S. S. E. N. P. L. A. N				GER 3.0,				
V. FACILITY MAILING ADDRESS		No are	41/500	45 46 -	48 49 - 51 52 - 55		J.E.	RIBLE
A. STREET OR P.O.								
3 R.O. U. T. E 2.4	7 1	1 1	1 1					
15 16 -				45				
B. CITY OR TOWN	TT		11	C.STATE D. ZIP COD				
4 M. A. P. L. E. T. O. N.				IL 6, 1, 5, 4,	7			
VI. FACILITY LOCATION								
A. STREET, ROUTE NO. OR OTHER	SPEC	IFIC I	DENTIF	IER				
5 R, O, U, T, E, 24				The state of the s				
B. COUNTY NAME				A5				
1 1 M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	1. 1		一				
PEORIA				70				
C. CITY OR TOWN	1 1			D.STATE E. ZIP COD	E F. COUNTY CODE (if known)			
6 M, A, P, L, E, T, O, N,				IL 6,1,5,4				
EPA Form 3510-1 (6-80)		ALC	1114	0 1000	51 52 - 54 CONT	NUE	ON I	REVERSE

ONTINUED FROM THE FRONT		2
/II. SIC CODES (4-digit, in order of priority)	THE STEEL STEEL	
A. FIRST	s (specify)	B, SECOND
(3, 3, 2, 1) (specify)	7 3, 3, 2, 4	Stool Investment Foundate
Gray Iron Foundry	15 16 - 19	Steel Investment Foundry
(specify)	c (specify)	(A)
5 16 - 19	7	AMERICAN PROPERTY
III. OPERATOR INFORMATION		B. Is the name listed in
A. NAM	E	Item VIII-A also the
CATERPILLAR TRACTOR. (COMPANY	▼ YES □ NO
C, A, T, E, R, P, I, L, L, A, R, , T, R, A, C, T, O, R, , O	C, O, M, F, A, N, I,	55 66
C. STATUS OF OPERATOR (Enter the appropriate letter into the	he answer box; if "Other", specify.)	D. PHONE (area code & no.)
F = FEDERAL M = PUBLIC (other than federal or state) S = STATE O = OTHER (specify)	P (specify)	A 3.0.9 6.7.5 1.0.0.0
P = PRIVATE	E 56	15 96 - 98 19 - 21 22 - 25
E, STREET OR P.O. BOX		
L. O. O N. O. R. T. H. E. A. S. T A. D. A. M. S S.	T.R.E.E.T.	
F. CITY OR TOWN	G.STATE H. ZIP C	ODE IX, INDIAN LAND
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PEORIA	I,L 6,1,6,	2,9 SYES INO
16 (1)	40 41 42 47 -	51
EXISTING ENVIRONMENTAL PERMITS	missions from Proposed Sources)	
A. NPDES (Discharges to Surface Water) D. PSD (Air E	T T T T T T T T T T T T T T T T T T T	
N 9P		NA
3 13 13 13	OTHER (specify)	
e T ,		(specify)
5 16 17 18 - 30 15 16 17 18	30	
	E. OTHER (specify)	(specify)
9 R 9 9 1		[specify]
30 15 16 17 18 XI, MAP	30	
Attach to this application a topographic map of the area exte	ending to at least one mile beyond	d property bounderies. The map must show
the outline of the facility, the location of each of its existing	g and proposed intake and disch	large structures, each of its hazardous waste
treatment, storage, or disposal facilities, and each well where water bodies in the map area. See instructions for precise requ	e it injects fluids underground. I	include all springs, rivers and other surface
	mements.	
XII. NATURE OF BUSINESS (provide a brief description)	TRUE AND THE REST	
The Mapleton Plant of Caterpil	lar Tractor Company is	a Gray Iron Foundry
producing castings solely for	Caterpillar's use in t	he production of
engines and heavy equipment.	2007 to Printer and C Employee and a state of the Printer and Tolking (1971). A first con-	
		men a symbol
XIII. CERTIFICATION (see instructions)		NO. OF STREET,
I certify under penalty of law that I have personally examin	ed and am familiar with the info	rmation submitted in this application and all
attachments and that, based on my inquiry of those person application, I believe that the information is true, accurate	ons immediately responsible for and complete. I am aware that	optaining the information contained in the there are significant penalties for submitting
false information, including the possibility of fine and impris	onment,	and any organizative political of the outer ting
	SIGNATURE	C. DATE SIGNED
Donald F. Domnick - Vice-President	Hannich	II links
Donard r. Domitek - vice-fresident	Affanoration	"/11(80
COMMENTS FOR OFFICIAL USE ONLY		
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EPA Form 3510-1 (6-80) REVERSE



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continued from the front.

II. PROCESSES (continued)

SPACE FOR ADDITIONAL PROCESS CODES INCLUDE DESIGN CAPACITY.

A DESCRIBING OTHER PROCESSES (code

FOR EACH PROCESS ENTERED HERE

Waste dust from a dust collection system is mixed with water and Line 3) formed into pellets to improve the handling quality of the dust.

V	DESCRIPTION	OF HAZARDOUS WASTES	•
7.	DESCRIPTION	OF HAZARDOOD HAGIES	

- EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Subpart D for each listed hezardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste/s/ that will be handled which possess that characteristic or contaminant.
- . UNIT-OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are: ...

ENGLISH UNIT OF MEASURE CODE	METRIC UNIT OF MEASURE	CODE
POUNDSP	KILOGRAMS	, , , , K
TONS	METRIC TONS	

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

, PROCESSES

- 1. PROCESS CODES:
 - For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
 - For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.
 - Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).
- 2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

IOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by nore than one EPA Hazardous Waste Number shall be described on the form as follows:

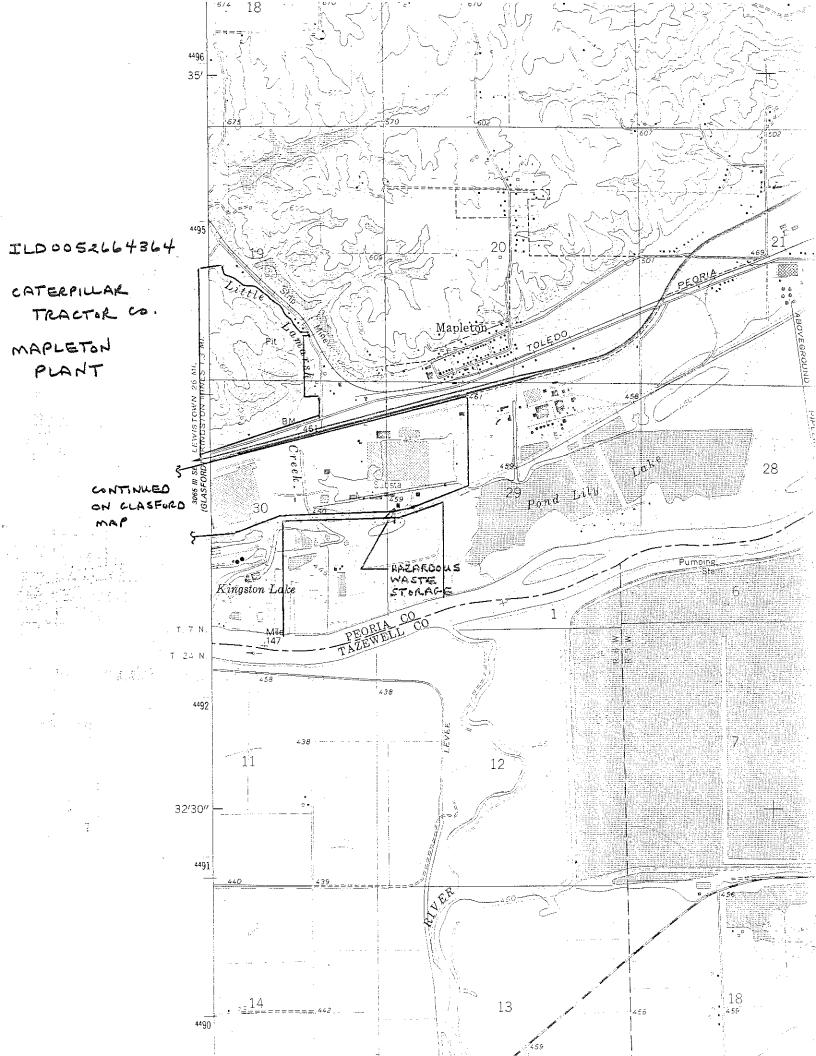
- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
 In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter
- "included with above" and make no other entries on that line,
- 3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

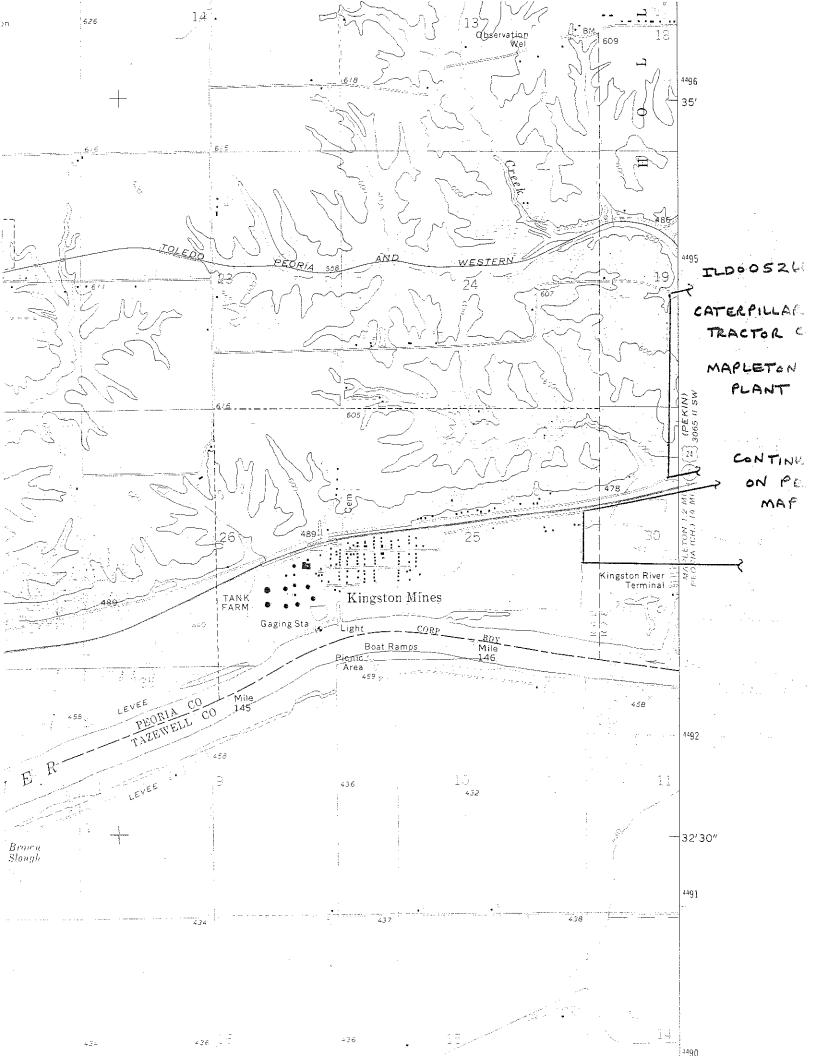
XAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds er year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes re corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 00 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

	A. EPA		C. UNIT	D.	PROCESSES
Ζď	HAZARD. WASTENO (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	OF MEA- SURE (enter code)	1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
ζ-1	K 0 5 4	900	P	T 0 3 D 8 0	
⟨-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	$D \mid 0 \mid 0 \mid 1 \mid$	100	P	T 0 3 D 8 0	
<u>{-4</u>	$D \mid 0 \mid 0 \mid 2$				included with above

Continued from the front,				
	(continued)	ITEM D(I) ON P.	3.	Martin a martin hay read up a martin
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				river and the second
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<u>11.0052664364</u>				
EPA I.D. NO. (enter from page I)		en e		
FILD 0 0 5 2 6 6 4 3 6 4 6			r.j.	
V. FACILITY DRAWING				
All existing facilities must include in the space provided VI. PHOTOGRAPHS	l on page 5 a scale drawing of	the facility (see instruct	ions for more detail). NA	নিক্তান্ত্ৰপুৰ্বা কাল্টকান হয়। ব্ৰহ্ম হোৱাৰ স্টেলাকটোক ১৯০০ ট্ৰিকা
All existing facilities must include photographs	(aerial or ground—level) th	eat clearly delineate a	ll existing structures; exist	ing storage,
treatment and disposal areas; and sites of future	storage, treatment or disp	oosal areas <i>(see instruc</i>	ctions for more detail).	NA l
VII. FACILITY GEOGRAPHIC LOCATION		LONGIT	LIDE (dogrado minutas & con	ands):
LATITUDE (degrees, minutes, & sec	onas)	LONGII	UDE (degrees, minutes, & sec	Onus)
4 0 3 3 0 3 5 65 66 67 68 69 21			0 8 9 4 5 0 0 8 75 76 77 75 76 77 75 75	
VIII. FACILITY OWNER				
A: If the facility owner is also the facility operato skip to Section IX below.	r as listed in Section VIII on I	Form 1, "General Inform	nation", place an "X" in the b	pox to the left and
B. If the facility owner is not the facility operator	r as listed in Section VIII on F	Form 1 complete the fo	Ilowina items:	
	ACILITY'S LEGAL OWNER			NO. (area code & no.)
	ACIEIT S ELONE OWITER			
E is 10			55 56 - SB	59 - 61 62 - 65
3. STREET OR P.O. BOX		4. CITY OR TOWN	5. ST.	6. ZIP CODE
F	45 15 16		40 41 62 67	
IX. OWNER CERTIFICATION				
I certify under penalty of law that I have person				
documents, and that based on my inquiry of the submitted information is true, accurate, and con				
including the possibility of fine and imprisonme		· · · · · ·		
A. NAME (print or type)	B. SIGNATURE	0	C. DATE SIGN	(ED
Donald F. Domnick - Vice-President	- Harrie	ich-	11/17/80	
X, OPERATOR CERTIFICATION				
I certify under penalty of law that I have person	ally examined and am fan	niliar with the inform	ation submitted in this an	d all attached
documents, and that based on my inquiry of the submitted information is true, accurate, and con including the possibility of fine and imprisonme	nplete. I am aware that the			
A. NAME (print or type)	B. SIGNATURE		C. DATE SIGN	NED
Donald F. Domnick - Vice-Presider	t KImmul	dr		
EPA Form 3510-3 (6-80)	PAGE 4 C			CONTINUE ON PAGE 5

Continued from page 2. NOTE: Photocopy this page before completing if yo	more	than 26 wastes to list.	Form Approved OMB No. 158-S80004
EPA I.D. NUMBER (enter from page 1) V		FOR OFFICIAL USE O	THE DUP
IV DESCRIPTION OF HAZARDOUS WASTI			13 14 13 23 - 26
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4 D 0 0 1 • 12000	P	S 0 1	
5 U 1 8 8 6000	P	S 0 1	
6 U 1 8 8 8 800	P	S 0 1	
7 D 0 0 2 2000	P	S 0 1	
8 P 0 9 0 10	P	S 0 1	
9 D 0 1 7 5	P	S 0 1	
10 U 1 8 8 8 800	P	S 0 1	
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PA Form 3510-3 (6-80)	111	17 21 F E 11 2 21 1 - 24	CONTINUE ON REVERSE







CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

November 14, 1980

E.P.A. Region V R.C.R.A. Activities P. O. Box 7861 Chicago, Illinois 60680

Dear Sirs:

Attached is our Part A Application for a hazardous waste permit for the Mapleton Plant.

The E.P.A. Identification Number is ILD0052664364.

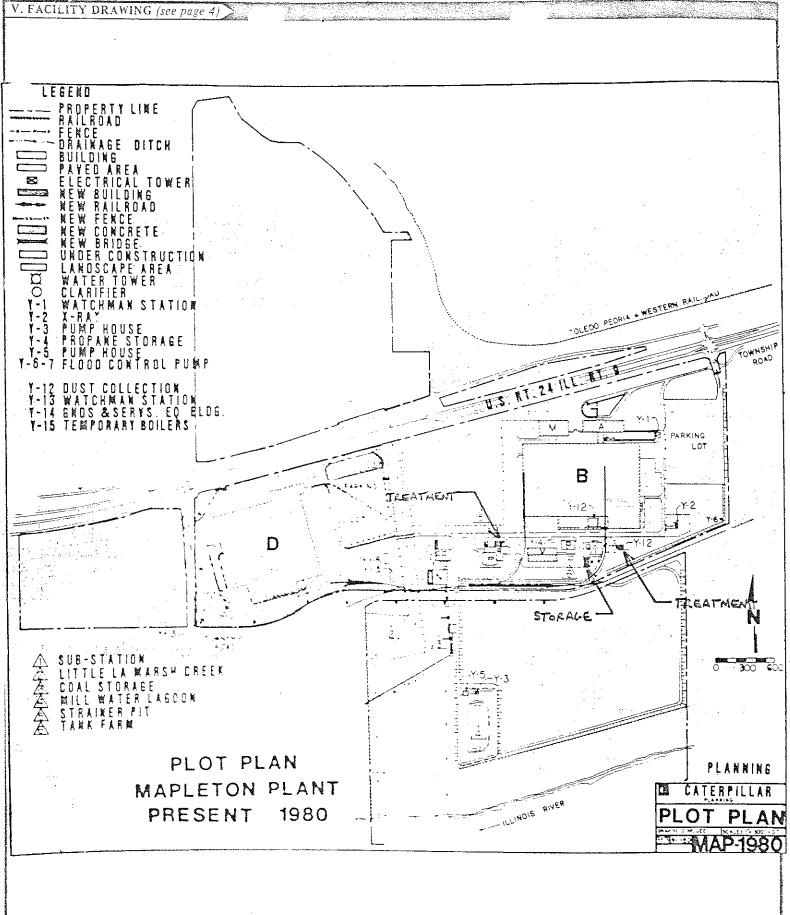
Very truly yours,

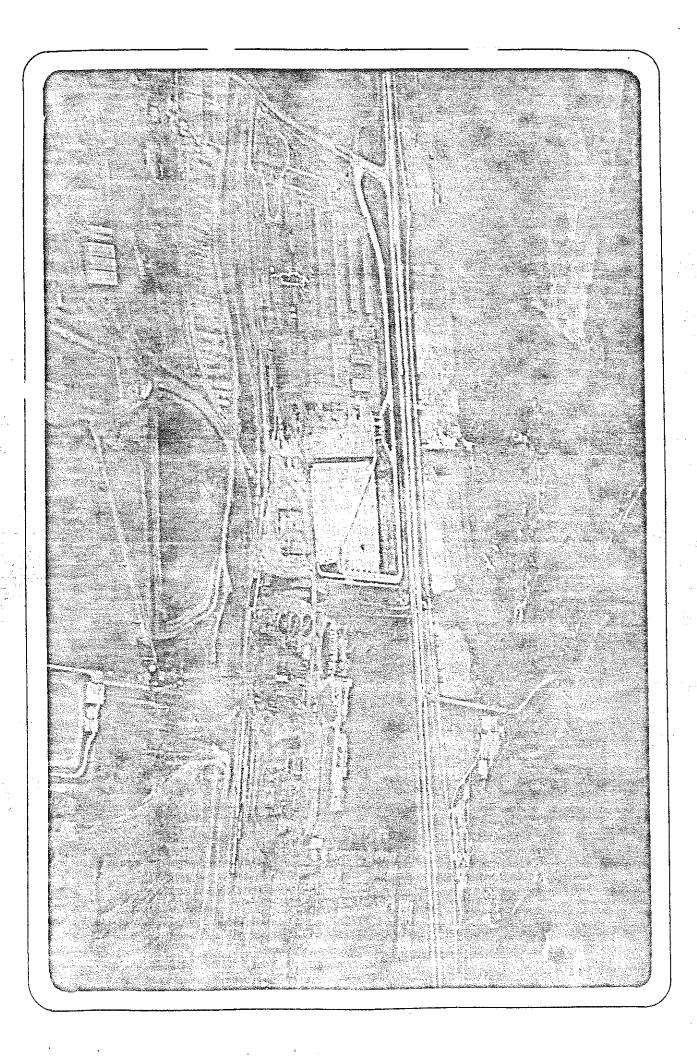
Donald F. Domnick Vice-President

Telephone: (309) 675-5861

bkn

Attachment





HAZARLOS WASTE PERMIT APPLICATION This information to required under Section 1905 of RCRA.) This information to required under Section 1905 of RCRA.) FIRST OR REVISED APPLICATION Dec an "X" in the appropriate box in A or 8 below first A one box only) to indicate whether this is the first application vous are submitting for your facility or a sweet application. If this is you first application and you sirestly know your facility is ETA 1.D. Number, or if this is a sevined application, enter your facility or a sweet application. If this is your first indicate whether this is the first application vous are submitting for your facility or a sweet application. If this is your first indicate whether this is the first application vous are submitting for your facility or a sweet application. First indicate whether this is the first application on vous are submitting for your facility or a sweet application. First indicate the second application and you sirestly know your facility. First indicate the second application, enter your facility or a sweet application. First indicate the second application, enter your facility or a sweet application. First indicate the second application and your facility. First indicate the second application of the second application. First indicate the second application of the second application of the second application of the second application. First indicate the second application of the second application of the second application of the second application of the second application. First indicate the second application of the second application	lease p	ase print or type in the unshaded areas only I—in areas are spaced for elite type, i.e., 12 charas are spaced f														
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2. UNIT OF MEASURE — For each amount entered in column 8(1), enter the code from the list of unit measure codes below that describes the unit of measure that are listed elow should be used. PROCESS CODE CODE CODE CODE CODE CODE CODE CODE	B. PR	oc	ES	SD	ESIGN CAPACITY - For e											
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EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour. DUP	CUE	IC	MI	ARI	S	C (AL	LON	TONS S PER	PER	UR	UR		::		W ACRESBE HECTARESQ
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	(continued)

- C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.
 - Waste dust from a dust collection system is mixed with water and formed into pellets to improve the handling quality of the dust.

IV. DESCRIPTION OF HAZARDOUS WASTES

- A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE	METRIC UNIT OF MEASURE CODE	
POUNDSP	KILOGRAMSK	
TONS	METRIC TONS	

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste,

D. PROCESSES

- 1. PROCESS CODES:
 - For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

 In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter
- "included with above" and make no other entries on that line,
- 3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing. In addition, In addition, the facility will treat and dispose of three non—listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill,

	A. EPA		C. UNIT	D. PROCESSES	
LINE NO.	HAZARD. WASTENO (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	SURE (enter code)	1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1))	
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2			included with above	

EPA I.D. NUMBER (enter from page 1)						FO	ROFFICI	AL USE O	Trial C
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ш	A. EPA HAZARD.	B. ESTIMATED ANNUAL	OF	MEA-				RELESSOR	D. PROCESSES
LINE NO.	WASTE NO. (enter code)	QUANTITY OF WASTE	(0)	iter de)		1. PROCES	ter)		2. PROCESS DESCRIPTION (if a code is not entered in D(1))
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EPA Form 3510-3 (6-80)

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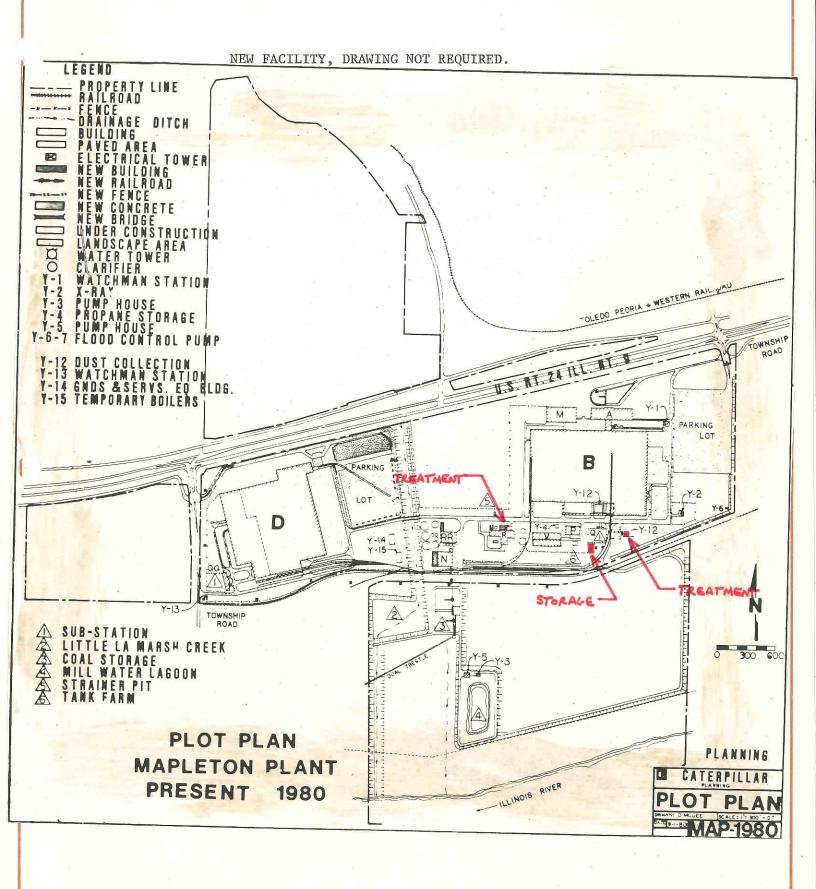
Donald F. Domnick - Vice-President

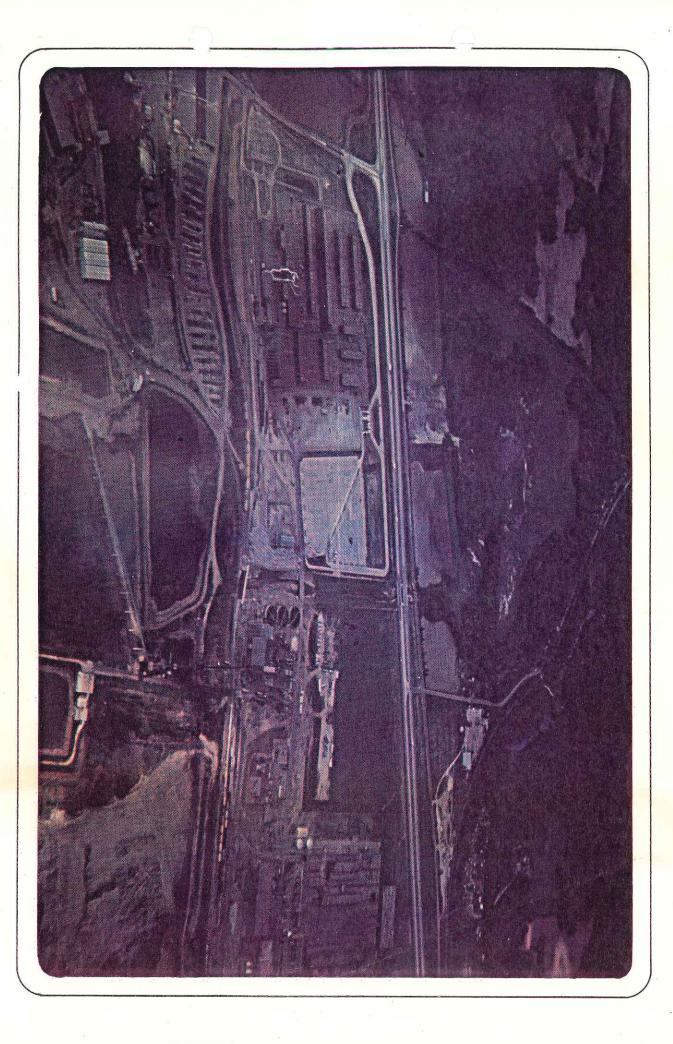
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Financial Record Review by Andrew Vollmer September 26, 1995 1438050004-Peoria co. Caterpillar Inc. ILD 052664364 Financial file

ON this date a record review was completed and the following apparent violations were observed.

The Letter from the Chief Financial Officer is incomplete for the year ending 12/31/93.

- 1. Spaces 4,5,6,7, have not been completed in paragraphs 3 & 4 before using an Attachment sheet.
- 2. The paragraph below paragraph 5, has not been completed.
- 3. Line 4 of alternative II has not been completed
- 4. The total on Attachment A are incorrect.

The closure cost for this facility lists closure at \$718,550 and total cost \$732,921, this dosn't add up.

They failed to submit the Annual Report and the Auditors Report.

The Letter from the Chief Financial Officer for the year ending 12/31/94 has the following apparent violations.

- 1. The Letter form the Chief Financial Officer is a photocopy and therefore not acceptable. Part 724.251 "States that the Agency shall promulgate standardized forms based on 40 CFR 264.151 with such changes in wording as are necessary under Illinois law. Any owner or operator required to establish financial assurance under this Subpart shall do so only upon the standardized forms promulgated by the Agency. The Agency shall reject any financial assurance document which is not submitted on such standardized forms".
- 2. Spaces 4,5,6,7, have not been completed in paragraph 1 & 3, the Letter from the Chief Financial Officer must be completed before using an attachment sheet.
- 3. The paragraph below paragraph 5 has not been completed. the numbered spaces are 12,13, and 14.
- 4. They failed to submit the Annual Report and the Auditor Report.

The closure cost is \$747,579.42 which is 1.02 percent over the cost of \$732,921 listed in the total column in the 1994 submittal, these costs need to be corrected on the 1994 submittal.

A C I L is being sent.



Illinois Environmental Protection Agency . P. O. Box 19276. Springfield, IL 62794-9276

217/782-6761

Refer to: 1438050004 - Peoria County

ILD052664364

1790200019 - Tazewell County

Caterpillar, Inc. - Mapleton Plt. Caterpillar, Inc. - E. Peoria Plt.

ILD052664604

1438100001 - Peoria County

Caterpillar Tractor

ILD005244777

1438100002 - Peoria County

Caterpillar, Inc. Mossville Tech. Ctr.

ILD067407627

Compliance File

April 26, 1989

Caterpillar, Inc.

ATTN: D. Brenden, Attorney 100 Northeast Adams Street Peoria, Illinois 61629-7310

Dear Mr. Brenden:

This is to inform you that your financial assurance instruments for the years 1985, 1986, 1987 and 1988 are in order.

Also, as a reminder, your updated instrument(s) for the year ending December 31, 1989, will be due by March 31, 1990.

If you have any questions or if we can be of assistance, please do not hesitate to contact Andrew A. Vollmer at 217/782-6762.

Sincerely,

angela ay Di

Angela Aye Tin, Manager Technical Compliance Unit Compliance Section Division of Land Pollution Control

AAT: AV: JPR: jas/1546k, 52

cc: Division File Peoria Region John Richardson Andy Vollmer

USEPA - Mary Murphy



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

MEMORANDUM

SUBJECT:	Determination of Need for an Investigation Facility Name: Caterallar Inc. EPA ID #: 11D D52 664364	
FROM:	Kathleen Miller, Environmental Protection Specialist	
TO:	George Hamper, Chief, Corrective Action Section 2	
I recommend	the following determination regarding the need for an investigation:	
Reason Prei PAA Pha Pha Pha Not Enr PAA Ser Sup Sup Oth		1
Reason PAA ESA Oth		
No determ	Ination can be made – More Information Needed Not Approved	

MEMO

To: File

From: Kathleen Miller

Date: 8/11/10

RE: Caterpillar Inc. Mapleton Plant (EPA ID# ILD 052 664 364)

Summary of Phone Conversations:

I attempted to contact Andrew Jarrick on Wednesday, August 4, 2010, the contact person in RCRA Info. The phone number is a working number and I left a message. On Monday, August 9th Mr. Jarrick returned my call and left a message. I have tried several times to catch him "live" since 8/9 and have not been able to reach him. I left a message on 8/11 and will wait to hear back from him. On Friday, August 13th, I was able to reach Mr. Jarrick. He stated that he followed the State's requirements for RCRA closure in 1996. He asked that I send him an email with my request for updated records on the facility. On Tuesday, August 17th, I sent him an email with my request.

On September 2nd, I followed up with Mr. Jarrick by calling him again. On September 3rd, he provided me with the IEPA RCRA Closure Approval letter for the 9/6/96 RCRA closure of four HWCSAs (SWMU 2,3,5,8). In Mr. Jarrick's email he pointed out that remediation efforts are being made in regards to item "c" of the letter, and his facility is working with Jean Greensley, U.S. EPA.

On September 13th, I spoke with Ms. Greensley in our office and was informed that the "Outside Storage Area South of Building Q Yard" of the site (which is the area of concern indicated in item "c" of the letter) has been enrolled in U.S. EPA's PCB Program since 2001. (See attached email from Ms. Greensley).

I was informed by George Hamper, that if a company representative tells me that the site is working with U.S. EPA on remediation activities (and in this case, **Caterpillar Inc.**, is **enrolled in U.S. EPA's PCB Program**) this is a reason to determine a CA070NO- no further investigation is necessary.

Updated contact info for this facility:

Caterpillar Inc. Mapleton Plant 8826 W. Rte 24 Mapleton, IL 61547

Andrew Jarrick, President 309-633-8482 jarrick andrew e@cat.com

Jean Greensley, Geologist U.S. EPA 312-353-1171 Greensley, jean@epa.gov

Re: U.S. EPA request for updated info re (EPA ID# ILD 052 664 364)

Andrew E. Jarrick

to:

KathleenA Miller 09/03/2010 11:00 AM

Cc:

"Judy C. Gagnon", "Jaron J. Bromm" Show Details

Ms. Miller,

As discussed in our conversation yesterday, September 2, attached is the IEPA RCRA Closure Approval Letter for the RCRA Closure dated September 6, 1996 for the Caterpillar Inc. - Mapleton Facility. Additionally, I have included the contact information for Jean Greensley of the USEPA Region V for any additional information needed on the remediation effort mentioned in item c of the attached letter. Please let me know if your office has any additional questions or requires any additional information in their effort to update their files.

Jean M Greensley
Geologist
U.S. Environmental Protection Agency
Remediation and Reuse Branch Region 5 LU-9J
77 West Jackson Boulevard
Chicago, IL 60604-3590
(312) 353-1171
greensley.jean@epa.gov

Thank you, Andrew

Andrew E. Jarrick
Environmental Affairs
Caterpillar Inc. - Cast Metals Organization
8826 W. Rt. 24
Mapleton, IL 61547
Tel: (309) 494-2745
Fax: (309) 992-7626
Jarrick Andrew E@cat.com

Miller.KathleenA@epamail.epa.gov

To Jarrick_Andrew_E@cat.com

CC

08/17/2010 01:20 PM

Subject U.S. EPA request for updated info re (EPA ID# ILD 052 664 364)

Caterpillar: Confidential Green

Retain Until: 08/19/2011

To Mr. Jarrick:

Per our telephone conversation on Friday, August 13, 2010, you asked that I send you an email regarding our request for updated information on your facility. As I mentioned over the phone, we would like any updated records regarding remediation activities for your site since the Preliminary Assessment/Visual Site Inspection was prepared in June of 1993. As I recall, you stated that your facility, has been working with the IEPA on other issues not related to the 1996 RCRA closure and possibly working towards a No Further Remediation (NFR) letter? If this is in fact the case, please provide us with this documentation. We do not need to get involved if you are participating in a voluntary remediation program with the state.

If you would like to send documents via regular mail service, please send them to my attention at the address:

U.S. EPA Region 5 Land and Chemical Division Attn: Kathleen Miller 77 West Jackson Blvd. LU-9J Chicago, IL 60604

OR

* Fax me the information: 312-697-2640 (Please include Attn: Kathleen Miller)

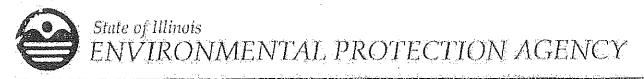
OR

* Email me at: Miller.KathleenA@epa.gov

I look forward to receiving any updated documentation regarding this matter. If you have any questions, please do not hesitate to contact me.

Kathleen Miller Environmental Protection Specialist RCRA Corrective Action U.S. EPA Region 5 Tel: 312-886-6761 Fax: 312-

Miller.KathleenA@epa.gov



Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/521-3300

September 6, 1996

CERTIFIED MAIL Z 363 621 022

Caterpillar, Inc. Attn: Carey French 8826 West Route 24 Mapleton, Illinois 61547-9799

Re: 1438050004 -- Peoria County

Caterpillar, Inc. ILD052664364 RCRA-Closure

Closure Log No. C-661 Received: July 31, 1996

Dear Ms. French:

This is in response to the certification of closure submitted by Caterpillar, Inc. for the four hazardous waste containers (S01) storage areas referred to as the "Building B Storage Area", "Building Y-16 Storage Area", "Building V Storage Area" and the "Outside Storage Area South of Building Q Yard" at the above-referenced facility. This certification, signed by a representative of the owner/operator, R.L. Claussen and an independent registered professional engineer. Steven D. Schroeder, P.E. indicated that the subject hazardous waste inanagement units have been closed in accordance with the plan approved by the Agency.

The subject hazardous waste management units were inspected by a representative of this Agency on August 15, 1996. The inspection revealed that the units were closed in accordance with the approved closure plan. In addition, a review of the closure certification and accompanying closure documentation report also indicates that the units were closed in accordance with the approved closure plan. Therefore, the Agency has determined that closure of the four (4) hazardous waste container storage areas at the above referenced facility has apparently met the requirements of 35 IAC 725.

As a result of completing closure of the subject hozardous waste management units:

- a. The Agency has withdrawn your Part A application.
- b. This facility must continue to meet the requirements of 35 IAC 722 Standards Applicable to Generators of Hazardous Wuste and 35 IAC 728 Land Disposal Restrictions.

- No.
- The Outside Storage Area South of Building Q Yards detected PCBs during remedial efforts at this unit. As such, the PCB contamination associated with this unit should be investigated and remediated, if necessary, under a program other than RCRA.
- d Care pillar should adjust its closure cost estimates and financial assurance documents to reflect completion of these activities. These adjustments should be made through the Planning and Report Section of this Bureau.

Should you have any questions regarding this matter, please contact William T. Sinnott, II at 217/524-3310.

Sincerely:

Edwin C. Bakowski, P.E.

Manager, Permit Section

Bureau of Land

ECB.WTS:bjh/961412.WPD

JEHL

cer USEPA Region V, Kelley Moore USEPA Region V. Hak Cho

Steven D.Schroeder, P.E.



Re: Fw: U.S. EPA request for updated info re Caterpillar Inc . (EPA ID# ILD 052 664 364)

Jean Greensley to: KathleenA Miller

09/13/2010 12:15 PM

Kathleen -- There are three areas of the Caterpillar site in Mapleton, Illinois have PCB contamination. The first is a 14 acre "Swale area", a 25 acre parcel identified as the last west of Building B (LWBB) and a drum storage area. The site has been under review by the PCB Program since 2001. In early 2010, EPA provided information regarding the regulatory options for site remediation in the LWBB and asked for a workplan for the remediation of PCb contamintion in the swale and a former drum storage area. The Caterpillar contractor submitted an RI/FS in June 2010. The EPA had a phone conversation with the Caterpillar contractor in June 2010 regarding the RI/FS. EPA asked for additional information which we have not received. Let me know if you need anything else. Jean

Determination: Sampling

PA/VSI Or RFA FILE REVIEW CHECKLIST

Facil	ity Nar	ne: Ca	terpillar Inc. (Mapleton Plant)
EPA	ID: IL	D 052 6	Address: 8826 W Rte 24 Mapleton, Peoria Co., IL
Nam	e of Re	eviewer	: Maureen McHugh Date of Review: 9/24/08
1	Yes	No	Is this a one folder site?
2	Yes	No	Are there Superfund files for this site?
3	Yes	No	Did you Read the Executive Summary?
			There are:13 SWMUs and4 AOCs at this site.
4	Yes	No	Did you review the regulatory history?
5	Yes	No	Does the facility have interim status or a permit?
			This facility is a: _X_ SQG, LQG, or Less than 90 day.
6	Yes	No	Was the Facility closed per RCRA? RCRAInfo 380 (1996)
			If Yes, was the closure:XCC, orCIP.
7	Yes	No	Are there documented (historical) releases? Briefly describe on Page 2.
8	Yes	No	Were there releases identified during the inspection? Briefly describe on Page 2.
9	Yes	No	Do you agree with the Conclusions and Recommendations?
			If No, briefly describe on Page 2.
As a	result o	of your r	eview of the PA/VSI or RFA file, please classify this site as:
	any oth	er SWM	corrective action recommended or warranted: These are sites that closed the regulated units Us or AOCs at the site did not warrant any further corrective action (no historic releases or observed during the Visual Site Inspection).
of in	vestiga MU or A	tion that AOC and	ion Required: Soil or sediment sampling or groundwater sampling or monitoring or any type was recommended in the report in response to a documented or observed release at any I where such investigation, whether being addressed during the inspection or after, does not locumentation in the facility record files.
	Mo:	re Inforr	nation Needed: There is no RFA, PA/VSI or RCRA closure information available.

PA/VSI Or RFA FILE REVIEW CHECKLIST

Notes
Briefly describe any documented (historical) releases for any SWMU or AOC recorded in the report. For each release, please identify the SWMU or AOC and a one or two line description of release.
-Phenolic wastewater was released to uncovered soils around the Phenolic Wastewater Storage Tank (SWMU10) prior to the early 1980s.
-In 1982, there was a gasoline pipeline leak at the AST Split-Pipeline Leak Area (AOC1). Sampling and disposal of soil was scheduled for the near future (in 1992).
-In 1983, there was a release of caustic cleaning solution and the material was collected for proper disposalIn 1984, a fire in a capacitor vault caused the release of about 100gal of PCB-contaminated water onto the ground. IEPA approved the extensive cleanup.
-In 1990, there was a sulfuric acid leak from an acid feed line for the wastewater treatment plant. The contaminated soil was removed but there was no documentation of post-remediation sampling (AOC2).
-In 1991, the soil was contaminated by a spill at the Diesel Fuel Saddle Tank Spill Area (AOC4). Some contaminated soil was removed but there was no documentation of post-remediation sampling. -In 1992, a gasoline release was detected in the Abandoned Aboveground Storage Tank Leak Area (AOC3). The facility
planned on testing and remediating the area as required.
Briefly describe any releases observed during the inspection for any SWMU or AOC recorded in the report. For each release, please identify the SWMU or AOC and a one or two line description of release.
PA/VSI Recommendations Soil sampling at the Waste Sand Landfill Area (SWMU1), the Phenolic Wastewater Storage Tank (SWMU10), the AST Split-Pipeline Leak Area (AOC1), the Sulfuric Acid Leak Area (AOC2), the AST Leak Area (AOC3), and the Diesel Fuel Truck Saddle Tank Spill Area (AOC4). Complete RCRA closure as planned for SWMU2,3,5,8. RCRA closure was completed in 1996.
Perform a waste analysis of the waste dust at the Facility Baghouse Dust Collectors (SWMU6) to determine if it is hazardous and if so, sampling may be necessary.

PRC Environmental Management, Inc. 233 North Michigan Avenue Suite 1621 Chicago, IL 60601 312-856-8700 Fax 312-938-0118



PRELIMINARY ASSESSMENT/ VISUAL SITE INSPECTION

CATERPILLAR INC. MAPLETON, ILLINOIS ILD 052 664 364

FINAL REPORT

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Waste Programs Enforcement Washington, DC 20460

Work Assignment No. : C05087

EPA Region : 5

 Site No.
 :
 ILD 052 664 364

 Date Prepared
 :
 June 10, 1993

 Contract No.
 :
 68-W9-0006

 PRC No.
 :
 009-C05087-IL2N

Prepared by : Resource Applications, Inc.

(Arthur Marshalla) (Scott R. Tajak)

Contractor Project Manager : Shin Ahn

Telephone No. : (312) 856-8700 EPA Work Assignment Manager : Kevin Pierard Telephone No. : (312) 886-4448

contains recycled fiber and is recyclable

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EXECUTIVE SUMMARY



Resource Applications, Inc. (RAI) performed a preliminary assessment and visual site inspection (PA/VSI) to identify and assess the existence and likelihood of releases from solid waste management units (SWMU) and other areas of concern (AOC) at the Caterpillar Inc. (Caterpillar) facility in Mapleton, Illinois. This summary highlights the results of the PA/VSI and the potential for releases of hazardous wastes or hazardous constituents from SWMUs and AOCs identified. In addition, a completed U.S. Environmental Protection Agency (EPA) Preliminary Assessment Form (EPA Form 2070-12) is included in Attachment A to assist in prioritization of RCRA facilities for corrective action.

The Caterpillar (formerly known as Caterpillar Tractor Company) facility is a grey iron foundry used for the manufacturing of engine and heavy equipment castings. The facility's Standard Industrial Code is 3321. The facility generates and manages the following waste streams. Some of the waste streams may be hazardous and nonhazardous and are so indicated. The waste codes listed are those assigned by the facility: waste refractory coating (D001, F002, U226, nonhazardous), waste resins (D001, D002, F002, U122, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous), unused cooling tower chemicals (D001, D002, nonhazardous), waste off-specification chemical (U226), and nonhazardous waste triethylamine scrubber liquor, waste grease, waste oil, waste sand, dust waste, polychlorinated biphenyls (PCB), dewatered sludge, and nonhazardous phenolic wastewater. In the past, waste triethylamine scrubber liquor (D002) and waste grease (D008) were also generated. The facility has operated at its current location since 1967. The facility occupies 608 acres in an industrial area and employs about 800 people. The facility's regulatory status is that of a large-quantity generator and storage facility. Building B was started in 1967 and was occupied until 1986. Building D was started in 1978 and is presently in full operation. Before 1967 the area was unimproved open land.

The PA/VSI identified the following 13 SWMUs and four AOCs at the facility:

DATE_

INITIALS_

Solid Waste Management Units

ENFORCEMENT CONFIDENTIAL

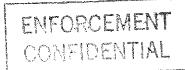
- 1. Waste Sand Landfill Area
- 2. Former Hazardous Waste Drum Storage Area
- 3. Indoor Hazardous Waste Drum Storage Area
- 4. Waste Oil Sump Area
- 5. Hazardous Waste Drum Storage Area
- 6. Facility Baghouse Dust Collectors
- 7. Wastewater Treatment System
- 8. Former Hazardous Waste Drum Storage Marshalling Area
- 9. Waste Scrubber Liquor Tank
- 10. Phenolic Wastewater Storage Tank
- 11. Former PCB Storage Area
- 12. PCB Storage Area
- 13. Temporary PCB Storage Area

Areas of Concern

- 1. Aboveground Storage Tank Split-Pipeline Leak Area
- 2. Sulfuric Acid Leak Area
- 3. Abandoned Aboveground Storage Tank Leak Area
- 4. Diesel Fuel Truck Saddle Tank Spill Area

Past history of the SWMUs has revealed documented releases to the soil. The fact that Caterpillar's personnel are more aware of the regulations than they were 10 years ago is one reason why future spills or releases are unlikely. A PCB spill occurred in 1984, during a fire in Building B. The fire was put out with water which was pumped out of the building and onto the soil, thus contaminating the soil with PCBs. After cleanup, Caterpillar received a letter from IEPA approving the method of cleanup.

The potential for release to ground water from all SWMUs, except SWMU 1, is low. SWMU 1 has an unknown potential for release of hazardous constituents to ground water because hazardous constituent content in the waste disposed in this unit is unknown. AOC 3 has a moderate to high potential for release to ground water due to the gasoline release to the soil in the area. AOC 1 has a moderate potential for release to ground water. A gasoline release to soil occurred here; however, this release occurred in 1982. AOC 4 has a moderate potential for release to ground water due to the diesel fuel release to soil in this area. AOC 2 has a low potential for release to ground water.



The potential for release to surface water from all SWMUs, except SWMU 1, is low. There is also a low potential for release to surface water at all AOCs. SWMU 1 has an unknown potential for release of hazardous constituents to surface water because the hazardous constituent content in the waste disposed in this unit is unknown.

The potential for release to on-site soils from all SWMUs, except SWMU 1, is low. However, overflow releases have occurred at SWMU 10. The unit has since been removed and no longer poses a threat to on-site soils. SWMU 1 has an unknown potential for release of hazardous constituents to on-site soils since hazardous constituent content in the waste disposed in this unit is not known. Releases of gasoline have occurred at AOC 1 and 3. No soil remediation has been conducted at either AOC. A release of sulfuric acid to on-site soil occurred at AOC 2. Thirty 55-gallon drums of contaminated soil were removed; however, no soil sampling was performed to verify that all contamination was removed. A release of diesel fuel to on-site soils occurred at AOC 4. Some soil was removed, but no documented soil sampling was available to RAI.

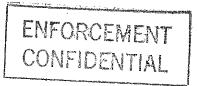
The potential for release to air from all SWMUs, except SWMU 1, and all AOCs is low. SWMU 1 has an unknown potential for release to air because hazardous constituent content in the waste disposed in this unit is unknown.

Caterpillar is located in an industrial area. A small residential area is located approximately 0.5 mile away. Water in the area is obtained from the Illinois River, located on the south property line of the facility. Other surface water bodies in the area include: 1) the Little Lamarsh Creek, which runs through the center of the Caterpillar property between Buildings B and D and drains into the Illinois River, and 2) the Pond Lily Lake located approximately 1 mile southeast of Caterpillar's Building B and on the north side of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands and was altered for the current land use. There are no ground water wells on site. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile north from Caterpillar. Facility access is controlled by fencing, security guards, and videomonitoring.

RAI recommends that RCRA closure be completed for SWMUs 2, 3, 5, and 8 per approved IEPA closure plans. Soil sampling should be conducted at SWMU 10 to determine if contamination

occurred as a result of overflows at the unit. Integrity tests of the tanks at AOCs 1 and 3 should be performed, and the soil around all AOCs should be sampled for contamination. RAI recommends soil sampling at SWMU 1 to determine if hazardous constituent contamination does exist. Furthermore, RAI recommends hazardous constituent analysis of the nonhazardous special wastes stored at SWMU 1. According to the facility representative, ground water monitoring at SWMU 1 has not identified any ground water contamination and the monitoring data is submitted quarterly to IEPA. RAI also recommends that a hazardous constituent waste analysis be performed on the waste dust stored in SWMU 6. If the waste is determined to be hazardous, sampling may be necessary for all environmental media. RAI recommends no further action for any of the other identified SWMUs.

RELEASEDALW DATE RIN # INITIALS WIT



1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC) received Work Assignment No. C05087 from the U.S. Environmental Protection Agency (EPA) under Contract No. 68-W9-0006 (TES 9) to conduct preliminary assessments (PA) and visual site inspections (VSI) of hazardous waste treatment and storage facilities in Region 5. Resource Applications, Inc. (RAI), TES 9 team member, provided the necessary assistance to complete the PA/VSI activities for the Caterpillar Inc. (Caterpillar) facility in Mapleton, Illinois.

As part of the EPA Region 5 Environmental Priorities Initiative, the RCRA and CERCLA programs are working together to identify and address RCRA facilities that have a high priority for corrective action using applicable RCRA and CERCLA authorities. The PA/VSI is the first step in the process of prioritizing facilities for corrective action. Through the PA/VSI process, enough information is obtained to characterize a facility's actual or potential releases to the environment from solid waste management units (SWMU) and areas of concern (AOC).

A SWMU is defined as any discernible unit at a RCRA facility in which solid wastes have been placed and from which hazardous constituents might migrate, regardless of whether the unit was intended to manage solid or hazardous waste.

The SWMU definition includes the following:

- RCRA-regulated units, such as container storage areas, tanks, surface impoundments, waste piles, land treatment units, landfills, incinerators, and underground injection wells
- Closed and abandoned units
- Recycling units, wastewater treatment units, and other units that EPA has generally exempted from standards applicable to hazardous waste management units
- Areas contaminated by routine and systematic releases of wastes or hazardous constituents. Such areas might include a wood preservative drippage area, a loading-unloading area, or an area where solvent used to wash large parts has continually dripped onto soils.

An AOC is defined as any area where a release to the environment of hazardous waste or constituents has occurred or is suspected to have occurred on a nonroutine and nonsystematic basis. This includes any area where such a release in the future is judged to be a strong possibility.

The purpose of the PA is as follows:

- Identify SWMUs and AOCs at the facility.
- Obtain information on the operational history of the facility.
- Obtain information on releases from any units at the facility.
- Identify data gaps and other informational needs to be filled during the VSI.

The PA generally includes review of all relevant documents and files located at state offices and at the EPA Region 5 office in Chicago.

The purpose of the VSI is as follows:

- Identify SWMUs and AOCs not discovered during the PA.
- Identify releases not discovered during the PA.
- Provide a specific description of the environmental setting.
- Provide information on release pathways and the potential for releases to each medium.
- Confirm information obtained during the PA regarding operations, SWMUs, AOCs, and releases.

The VSI includes interviewing appropriate facility staff, inspecting the entire facility to identify all SWMUs and AOCs, photographing all SWMUs, identifying evidence of releases, initially identifying potential sampling locations, and obtaining all information necessary to complete the PA/VSI report.

This report documents the results of a PA/VSI of the Caterpillar facility in Mapleton, Illinois. The PA was completed on January 21, 1992. RAI gathered and reviewed information from the

Illinois Environmental Protection Agency (IEPA) and from EPA Region 5 RCRA files. RAI also reviewed relevant publications from the U.S. Department of Agriculture (USDA), Soil Conservation Service (SCS), U.S. Department of Commerce (USDC), U.S. Geological Survey (USGS), Federal Emergency Management Agency (FEMA), and the Illinois State Geological Survey (ISGS). The VSI was conducted on January 22, 1992. It included interviews with facility representatives and a walk-through inspection of the facility. Thirteen SWMUs and four AOCs were identified at the facility.

RAI completed EPA Form 2070-12 using information gathered during the PA/VSI. This form is included in Attachment A. The VSI is summarized and 11 inspection photographs are included in Attachment B. Field notes from the VSI are included in Attachment C.

2.0 FACILITY DESCRIPTION

This section describes the facility's location, past and present operations (including waste management practices), waste generating processes, history of documented releases, regulatory history, environmental setting, and receptors.

2.1 FACILITY LOCATION

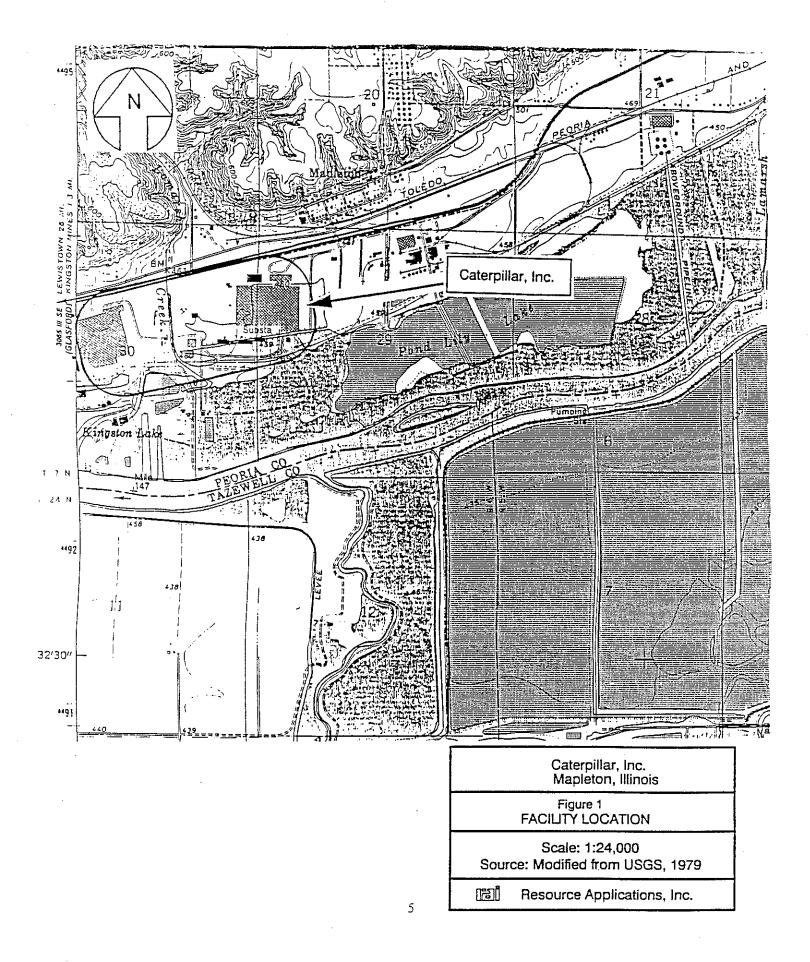
The Caterpillar facility is located at 8826 W. Route 24 in Mapleton, Peoria County, Illinois (latitude 40°33′35″ N and longitude 89°44′08″ W), as shown in Figure 1. The facility occupies 608 acres in an industrial area.

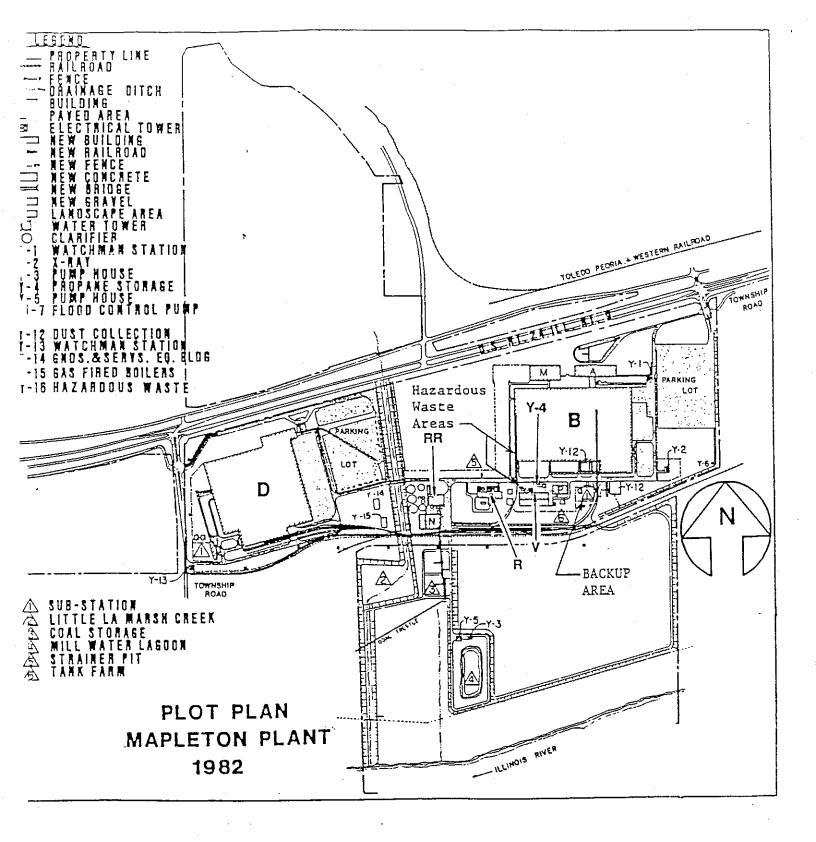
The Caterpillar facility is bordered on the north by U.S. Route 24/Illinois Route 9 and the Village of Mapleton, on the east by two chemical plants, on the south by the Illinois River, a barge terminal, and a warehouse, and on the west by open land and farmland.

2.2 FACILITY OPERATIONS

According to the facility representative, Caterpillar started their operations in Building B in 1967 and operated until 1986. A new building, Building D, started operations in 1978 and is currently in operation. In 1986, the company incorporated in Delaware as Caterpillar Inc. and the name was changed to reflect the new status. The facility regulatory status is that of a large-quantity generator and storage facility. Before 1967 the area was unimproved open land.

Caterpillar ceased operations in Building B in 1986. When operating, this facility was a grey iron foundry used for the manufacture of engine and heavy equipment castings. Its Standard Industrial Code was 3321. A facility layout of Caterpillar is included as Figure 2. Figure 3 is an enlargement of Figure 2 and includes locations of SWMUs and AOCs. Table 1 presents the SWMUs identified at the facility.





Caterpillar, Inc. Mapleton, Illinois

Figure 2
FACILITY LAYOUT

Scale: 1" = 1000'
Source: Caterpillar, 1982

Resource Applications, Inc.

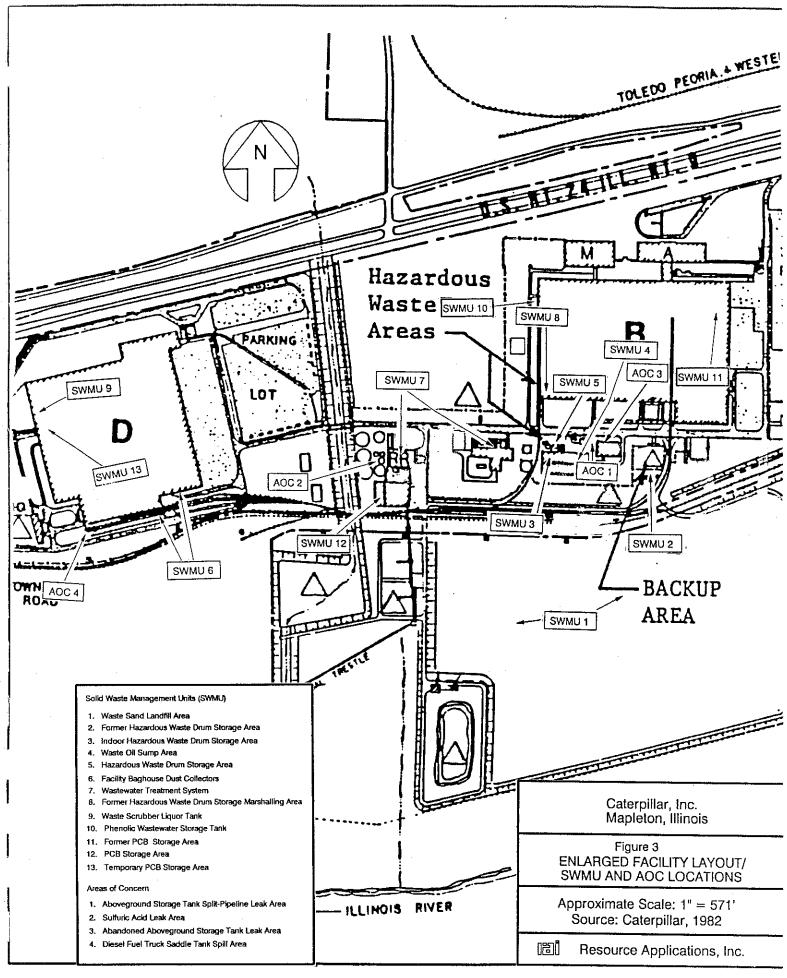


TABLE 1
SOLID WASTE MANAGEMENT UNITS

SWMU Number	SWMU Name	RCRA Hazardous Waste Management Unit ^a	<u>Status</u>
1 .	Waste Sand Landfill Area	No	Active, estimated year for final closure is 1995.
2	Former Hazardous Waste Drum Storage Area	Yes	Inactive, stored greater than 90 days, awaiting RCRA closure plan approval by IEPA.
3	Indoor Hazardous Waste Drum Storage Area	Yes	Active, greater than 90-day storage, awaiting RCRA closure plan approval by IEPA.
4	Waste Oil Sump Area	No	Active, less than 90-day storage.
5	Hazardous Waste Drum Storage Area	Yes	Active, greater than 90-day storage, awaiting RCRA closure plan approval by IEPA.
6	Facility Baghouse Dust Collectors	No	Active, less than 90-day storage.
7	Wastewater Treatment System	No	Active, less than 90-day storage.

Note:

A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application.

TABLE 1 (continued)

SOLID WASTE MANAGEMENT UNITS

SWMU Name	RCRA Hazardous Waste Management Unit ^a	Status
Former Hazardous Waste Drum Storage Marshalling Area	Yes	Inactive, stored greater than 90 days, awaiting RCRA closure plan approval by IEPA.
Waste Scrubber Liquor Tank	No	Active, less than 90-day storage.
Phenolic Wastewater Storage Tank	No	Inactive, stored nonhazardous phenolic wastewater prior to on-site treatment.
Former PCB Storage Area	No	Inactive, stored PCB waste only.
PCB Storage Area	No	Active, stores PCB waste only.
Temporary PCB Storage Area	No	Inactive, stored PCB waste only.
	Former Hazardous Waste Drum Storage Marshalling Area Waste Scrubber Liquor Tank Phenolic Wastewater Storage Tank Former PCB Storage Area PCB Storage Area Temporary PCB Storage	Former Hazardous Waste Drum Storage Marshalling Area Waste Scrubber Liquor Tank Phenolic Wastewater Storage Tank Former PCB Storage Area No PCB Storage Area No Temporary PCB Storage No

A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application.

The facility has operated at its current location since 1967 and employs about 800 people. The facility consists of many buildings, which are described as follows: Office (A) (61,640 square feet), Foundry (D) (1,519,660 square feet), Electric Switch House (Q) (3510 square feet), Electric Switch House (QQ) (11,450 square feet), Air Compressor/Waste Treatment (R) (40,815 square feet), Waste Treatment (RR) (47,700 square feet), Storage and Receiving (V) (52,700 square feet, Watch Shelter (Y-1) (3,070 square feet), X-Ray (Y-2) (1,700 square feet), Pump House (Mill Water) (Y-3) (1,710 square feet), Compressed Gas Storage (Y-4) (1,200 square feet), Pump House (Mill Water) (Y-5) (4,200 square feet), Pump House (Flood Control) (Y-6) (312 square feet), Pump House (Flood Control) (Y-7) (465 square feet), Guard House (Y-13) (660 square feet), Yard Equipment Storage (Y-14) (6,250 square feet), Temporary Boiler Plant (Y-15) (6,000 square feet) and Hazardous Waste Drum Storage Building (Y-16) (450 square feet). Buildings A, Q, Y-1, and Y-15 are inactive, as are additional buildings which include the Foundry (B), Pattern Shop (M), Heating Plant (N), and Garage/Investment Foundry (P).

There are 13 SWMUs of which five are presently inactive (SWMUs 2, 8, 10, 11, and 13). The Waste Sand Landfill Area (SWMU 1) is permitted by the State of Illinois as a Solid Waste Disposal Site and is used only for nonhazardous waste sand from the foundry operations. Discharge from the Wastewater Treatment System (SWMU 7) is regulated under a National Pollutant Discharge Elimination System (NPDES) permit. This system was started in the mid-1970s and is still in operation. Three areas have stored PCBs (SWMUs 11, 12, and 13), which are managed under the Toxic Substances Control Act (TSCA). The actual foundry process consists of four steps, which are: (1) the making of cores, which represent hollow portions of the finished product; (2) molding, which consists of forming sand around a pattern, after which the pattern is removed, thus leaving a void which now represents the external shape of the finished product and setting cores in position; (3) pouring molten iron into the void, thus forming the actual product; and (4) finishing, which removes bumps and rough edges.

2.3 WASTE GENERATING PROCESSES

Wastes are generated and managed at various locations throughout the facility. Facility generation and management of both hazardous and nonhazardous wastes are discussed below. Some

of the waste streams may be hazardous and nonhazardous and are so indicated in the discussion. The waste codes are those assigned by the facility.

The primary waste streams generated at the Caterpillar facility are waste refractory coating (D001, F002, U226, nonhazardous), waste resins (D001, D002, F002, U122, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous), unused cooling tower chemicals (D001, D002, nonhazardous), waste off-specification chemical (U226), and nonhazardous waste triethylamine scrubber liquor, waste grease, waste oil, waste sand, dust waste, polychlorinated biphenyls (PCB), dewatered sludge, and nonhazardous phenolic wastewater. In the past, waste triethylamine scrubber liquor (D002) and waste grease (D008) were also generated. These wastes are, or were, generated during the manufacture of gray iron castings. Wastes generated at the facility are discussed below and are summarized in Table 2. The discussion, including waste generation rates, will be based on the results of an IEPA inspection report dated December 9 and 16, 1988, and discussions with facility representatives. Wastes have been stored in the Former Hazardous Waste Drum Storage Area (SWMU 2), Indoor Hazardous Waste Drum Storage Area (SWMU 3), Hazardous Waste Drum Storage Area (SWMU 5), and Former Hazardous Waste Drum Storage Marshalling Area (SWMU 8), as listed in Table 2, but records are not available to indicate which specific wastes were stored in which specific units (Caterpillar, 1992a). SWMUs 2, 3, 5, and 8 became active in 1980s, and SWMUs 2 and 8 are presently inactive. The dates SWMUs 2 and 8 became inactive are unknown.

Caterpillar's core manufacturing operation generates several types of waste refractory coatings (D001, F002, U226, nonhazardous). The refractory coating is used to prevent molten iron from sticking to the sand during mold pouring and cooling. The core is dipped into a tank in order to apply the refractory coating. The waste is generated during periodic cleaning of the tank. The process generates an alcohol-based (D001), a solvent (1,1,1-trichloroethane)-based (F002, U226), or a nonhazardous water-based coating, each mixed with clay. The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of 10 drums or less per year (Caterpillar, 1993a). The solvent-based waste is transported off site by Chemical Waste Management (CWM) to Trade Waste Incineration (TWI) in Sauget, Illinois. This waste is treated by incineration. The alcohol-based coating is delivered by CWM to the CWM, Emelle Facility (CWM, EM) in Emelle, Alabama for fuel

TABLE 2 SOLID WASTES

Waste/EPA Waste Code ^a	Source	Solid Waste Management Unit
Waste Refractory Coating/D001, F002, U226, NA	Air dry core, dip and mold spray	2, 3, 5, 8
Waste Resins/D001, D002, F002, U122, NA	Core Room	2, 3, 5, 8
Waste Core Catalyst/D001, D002, NA	Core Room	2, 3, 5, 8
Waste Janitorial Products/D002, NA	Facility Cleaning	2, 3, 5, 8
Unused Cooling Tower Chemicals/ D001, D002, NA	Cooling Towers	2, 3, 5, 8
Waste Off-Specification Chemical/U226	Foundry Process	2, 3, 5, 8
Waste Triethylamine Scrubber Liquor/D002, NA	Core Room	9
Waste Grease/D008, NA	Machinery	2, 3, 5, 8
Waste Oil/NA	Sump Area	4
Waste Sand ^b	Foundry Process	1

Notes:

Not applicable (NA) designates nonhazardous waste.

Caterpillar claims that this waste is nonhazardous (Caterpillar 1992b). IEPA regulates it as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided. Hence, no waste designation has been provided.

TABLE 2 (continued)

SOLID WASTES

Waste/EPA Waste Code ^a	Source	Solid Waste Management Unit
Dust Waste ^b	Foundry Process	1, 6
PCBs	Capacitors & Transformers	11, 12, 13
Dewatered Sludge/NA	Wastewater Treatment Plant	7
Phenolic Wastewater/NA	Core equipment cleaning	10

Notes:

Not applicable (NA) designates nonhazardous waste.

Caterpillar claims that this waste is nonhazardous (Caterpillar 1992b). IEPA regulates it as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided. Hence, no waste designation has been provided.

blending, while the water-based waste is shipped to CWM, EM for stabilization and landfill (Caterpillar, 1993a).

Caterpillar's core manufacturing operation also generates several types of waste resin (D001, D002, F002, U122, nonhazardous). The resins are used during core manufacturing for binding sand. The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of five drums per month (Caterpillar, 1992b). The waste is transported off site by CWM to CWM, EM for incineration (Caterpillar, 1993a).

Caterpillar's core manufacturing operation generates several types of waste core catalysts (D001, D002, nonhazardous). The core catalysts are used to increase the rate of chemical reaction during core manufacturing (IEPA, 1990a). The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of six drums or less per year (Caterpillar, 1993a). The waste is transported off site by CWM to CWM, EM for fuel blending, stabilization, and landfill (Caterpillar, 1992b).

Caterpillar generates waste janitorial products (D002, nonhazardous) from facility cleaning. The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of one drum or less per year (Caterpillar, 1993a). The waste is transported off site by CWM to CWM, EM for stabilization and landfill (Caterpillar, 1992b).

Caterpillar generated unused cooling tower chemicals (D001, D002, nonhazardous). The facility generated this waste as a one-time generation event during the 1980s. The waste was transported by CWM to CWM, EM for fuel blending, stabilization, and landfill (Caterpillar, 1993a).

Caterpillar utilizes 1,1,1-trichloroethane as a solvent for general cleaning operations (IEPA, 1990a). The spent solvent is the previously discussed waste refractory coating (F002). The waste off-specification chemical (U226) was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of one drum or less per year of this waste. Most of these drums are transported off site by CWM to TWI in Sauget, Illinois for incineration, and the remainder are transported to CWM, EM for solvent recovery (Caterpillar, 1992b).

Caterpillar generates waste triethylamine scrubber liquor (D002, nonhazardous) as a result of an air scrubber operation in the core room. Due to modifications of the operation several years ago, the waste is currently nonhazardous, although in the past it had a hazardous characteristic (D002). This waste is accumulated in the Waste Scrubber Liquor Tank (SWMU 9), an aboveground storage tank located in the basement. This waste is generated at a rate of approximately 3,000 gallons per month. The waste is emptied from the scrubber to the storage tank by gravity feed. When the tank is full, the waste is transferred to a highway tanker truck by hauling it in a small, in-house (approximately 400-gallon) tanker. The wastes are transported off site by the Peoria Disposal Company, Peoria, Illinois to Clean Harbors of Cleveland, Ohio for aqueous organic treatment (Caterpillar, 1993a).

Caterpillar generates nonhazardous waste grease and nonhazardous waste oil as a result of maintenance operations of vehicles and machinery. On one occasion in the past, drums of waste grease (D008) were generated, apparently from leaded bearings contaminating the grease. The waste grease is stored in SWMUs 2, 3, 5, or 8. The oil operation involves the Waste Oil Sump Area (SWMU 4), which is pumped out by the recycler's truck. The facility generates approximately one to three drums per year of the waste grease and 1,000 gallons per month of the waste oil. The waste grease (D008, nonhazardous) was transported by CWM and taken to CWM, EM for stabilization and landfill. The nonhazardous waste oil is transported by Safety-Kleen Corporation to Breslube USA, Inc., East Chicago, Indiana, for reclamation (Caterpillar, 1993a).

Caterpillar generates waste sand from foundry processes. This waste is disposed of on site in Caterpillar's privately owned Waste Sand Landfill Area (SWMU 1). Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the waste sand as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. Hence, no waste designation has been provided. The Waste Sand Landfill Area (SWMU 1) has monitoring wells which were installed in December 1991 and January 1992, and according to the facility representative, data from ground water monitoring is submitted quarterly to IEPA and no indication of ground water contamination has been identified (Caterpillar, 1993b). The landfill covers an area of 82 acres and is located south of Building B and north of the Illinois River. The facility's estimate of the annual volume of waste received is 61,000 cubic yards (IEPA, 1991). The total capacity of the landfill is greater than 2 million cubic yards. It is estimated that the landfill will

remain in operation until approximately 1995 or 1997. The waste is transported by Caterpillar's own trucks, scrapers and other hauling equipment. The waste sand is moved into place and compacted using common earthworking machinery.

Caterpillar generates dust waste which is captured in the Facility Baghouse Dust Collectors (SWMU 6) south of Building D. These are air pollution control devices, used for controlling solid particulate emissions to the atmosphere by utilizing an induced draft fan and collecting the dust in a series of special-type cloth bags. The dust particulates are automatically removed from the bags and gravity fed onto a conveyor. The conveyor then transports the waste dust to a storage hopper where it is mixed with sand and water. The waste is generated at the rate of approximately 10 cubic yards per month. The waste is then taken to the Waste Sand Landfill Area (SWMU 1). Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the dust waste as a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. Hence, no waste designation has been provided. The Waste Sand Landfill Area has monitoring wells which were installed in 1991 and 1992.

Caterpillar generates significant amounts of PCBs periodically when old equipment containing PCB capacitors and transformers breaks down or becomes unserviceable. Caterpillar is no longer purchasing new components which utilize PCBs. The drummed wastes which may be contaminated with PCBs were initially stored in the Former PCB Storage Area (SWMU 11) and subsequently stored in the PCB Storage Area (SWMU 12) and then shipped for incineration to various incinerators (IEPA, 1986). Contaminated debris from a capacitor fire cleanup in 1984 were stored in the Temporary PCB Storage Area (SWMU 13).

Caterpillar's Wastewater Treatment System (SWMU 7) generates dewatered sludge (nonhazardous) as a residue. The sludge is collected from the acid-alkali-oil (AAO) treatment systems, sanitary treatment system, and the dust collector wastewater (DCWW) systems. Dewatered sludge is estimated to be 40 percent solid and is transferred from the drying units to a truck loadout area with belt conveyors, all of which are a part of SWMU 7. It is estimated that 60 to 80 cubic yards per day of dry sludge is disposed of at the Peoria City/County Landfill (Caterpillar, 1993a).

Between the mid-1970s and the early 1980s, Caterpillar generated a nonhazardous phenolic wastewater. This wastewater was generated from the core manufacturing process in Building B. Water was used to clean the core manufacturing machines and the resultant wastewater contained low levels of phenols from core resins used during the production (Caterpillar, 1992e). According to Illinois Disposal Permit No. 781475, this wastewater was nonhazardous (Caterpillar, 1992d). The wastewater was directed to the Phenolic Wastewater Storage Tank (SWMU 10) via a piping system. The phenolic wastewater was then discharged to the facility's on-site sanitary waste treatment plant for biological treatment along with the facility's sanitary waste (Caterpillar, 1992e). According to a facility representative, an off-site disposal permit was maintained by Caterpillar in the event that the storage/treatment capacity became insufficient. It is not known if Caterpillar ever utilized this disposal permit.

2.4 HISTORY OF DOCUMENTED RELEASES

Between the mid-1970s and early 1980s, Caterpillar generated a nonhazardous phenolic wastewater from the cleaning of the core manufacturing machines (Caterpillar, 1992e). This wastewater was stored in the Phenolic Wastewater Storage Tank (SWMU 10) prior to on-site biological treatment. According to a facility representative, overflows occurred at this tank resulting in the phenolic wastewater being released to uncovered soil beneath and around SWMU 10. The facility was unable to provide any information regarding dates, amounts, or remedial activities associated with these releases.

On March 22, 1982, there was a small gasoline leak from a damaged discharge line on a small tank located on a Building D slab. The leak was reported to National Response Center (NRC) the same day. There was no release to any environmental media (Caterpillar, 1992a).

On June 11, 1982, there was a mercury (D009) spill inside Building B (molding) which occurred from a broken counterweight. The spill was reported to NRC on June 23, 1982. The spill occurred in a mold line shakeout area. This particular shakeout area used counterweights filled with mercury, which were used to produce a vibratory action needed to shake sand off castings. The counterweight was damaged and released approximately 12 pounds of mercury. The mercury spill was on a concrete floor and was cleaned up so that there was no release to the environment. The

concrete floor is 10 inches thick. The mercury was given to a Caterpillar laboratory for their use. There is no documentation of cleanup approval from IEPA (Caterpillar, 1992a).

On December 1, 1982, there was a gasoline pipeline leak, the Aboveground Storage Tank (AST) Split-Pipeline Leak Area (AOC 1). There was a split in a pipe that fed gasoline from an AST into pumps for vehicles. This area is located immediately south of Building B. The line was shut off. The leak was reported to NRC on December 1, 1982. According to a facility representative, sampling and any necessary removal and proper disposal of soil are scheduled for the near future (Caterpillar, 1992a).

On February 4, 1983, there was a release of a caustic cleaning solution. A facility representative stated that the only record of this incident is a release report made by telephone to NRC in 1983. The facility representative also commented that the release report does not list the location of the spill, although it indicates the material was collected for proper disposal (Caterpillar, 1992a). There was no documentation of release to the environment.

A fire in a capacitor vault, in Building B, on June 20, 1984 caused the release of PCB-contaminated water onto the ground outside the south end of the building and into a catch basin called Y-6 (see Figure 2). This spill involved approximately 100 gallons of PCB-contaminated water from a number of small capacitors, which resulted in an extensive cleanup which is now complete. IEPA submitted a letter to Caterpillar, approving the cleanup of the PCB spill (IEPA, 1985).

On November 6, 1990, there was a sulfuric acid leak from an acid feed line for the wastewater treatment plant, outside on the west side of Building RR, referred to as the Sulfuric Acid Leak Area (AOC 2), which was reported to NRC on the same day. The leak had contaminated soil in the immediate area. The contaminated soil was removed by Caterpillar personnel and shipped out (Caterpillar, 1992a). There is no documentation of any soil sampling subsequent to remediation. No information was available on the transporter used or the ultimate disposition of the contaminated soil.

On December 19, 1991, a truck (not Caterpillar's) had an accident at the Caterpillar facility. As a result of the accident, a diesel fuel saddle tank was ripped away from the truck causing a spill in the Diesel Fuel Truck Saddle Tank Spill Area (AOC 4), which contaminated the soil near the

southwest corner of Building D. The owner of the truck contracted a spill response company to clean up the area. Some contaminated soil was removed and disposed of by the spill response company. There is no documentation of sampling or where the contaminated soil was shipped (Caterpillar, 1992a).

In mid-January 1992, Caterpillar detected a release in the Abandoned Aboveground Storage Tank Leak Area (AOC 3). The incident was reported to the Illinois Emergency Services and Disaster Agency (IESDA). The tank contained gasoline, which was originally used for fuel in vehicles. The aboveground pump station which would have worked in conjunction with this tank has been removed. Based on tests which were taken at the site, some contamination was detected. There is no documentation as to the type of tests which were taken or when they were taken. It is also understood that Caterpillar intends to perform more testing and to remediate as required. It is not known what type of testing will be performed. IESDA has notified IEPA about the release (Caterpillar, 1992c). No further information was given to RAI regarding this release.

2.5 REGULATORY HISTORY

According to an IEPA inspection report, Caterpillar submitted a Notification of Hazardous Waste Activity to EPA on August 18, 1980 (IEPA, 1988b). A copy of Caterpillar's notification could not be obtained by RAI. The facility submitted a RCRA Part A permit application on November 17, 1980 (Caterpillar, 1980). The application listed the following wastes: D001, D002, D006, D008, D013, D017, F001, U009, U121, U122, U133, U154, U188, U226, U228, and U242. The process design capacity is listed as a 33,000-gallon drum storage area (S01), 500-gallon storage tank (S02), 500 liters-per-day treatment (T04), and 20 gallons-per-day tank treatment (T01). The total estimated quantity of waste was 1,293,000 pounds per year. The above does not include PCB waste, which is managed separately and shipped to various incineration facilities for disposal. According to a facility representative, the S02 designation referred to the Phenolic Wastewater Storage Tank (SWMU 10) and although the capacity for SWMU 10 could not be determined, it was greater than 500 gallons. On December 21, 1984, Caterpillar submitted a revision to the Part A permit application to change its waste codes (Caterpillar, 1984). This letter stated that the Caterpillar, Mapleton plant did not have any hazardous waste storage tanks in use. They had filed incorrectly. The application listed the following wastes: D001, D002, D008, and U226. The process design

capacity is listed as a 33,000-gallon drum storage area (S01). The total estimated quantity of waste is 286,000 pounds per year. On May 31, 1989, Caterpillar submitted a revision to the Part A permit application to change its waste codes (Caterpillar, 1989). The application listed the following wastes: D001, D002, D003, F002, U122, and U226. The process design capacity is listed as a 55,000-gallon drum storage area (S01). The total estimated quantity of waste is 28,000 pounds per year.

Caterpillar is currently in the process of closing the following SWMUs: Former Hazardous Waste Drum Storage Area (SWMU 2), Indoor Hazardous Waste Drum Storage Area (SWMU 3), Hazardous Waste Drum Storage Area (SWMU 5) and Former Hazardous Waste Drum Storage Marshalling Area (SWMU 8) (Caterpillar, 1987). These four SWMUs will go through RCRA closure following approval of closure plans, which Caterpillar has submitted to IEPA (Caterpillar, 1993b).

Caterpillar is classified as a large-quantity generator and storage facility (IEPA, 1988a). The Waste Sand Landfill Area (SWMU 1) is permitted by the State of Illinois as a solid waste disposal site for nonhazardous special waste (LPC No. 143 805 004) (IEPA, 1988a, 1991). Caterpillar claims that SWMU 1 manages nonhazardous waste (Caterpillar, 1992b). IEPA documents indicate that the waste in SWMU 1 consists of nonhazardous special waste sand and dust generated in the Caterpillar foundry (IEPA, 1988a, 1989). Since this unit manages nonhazardous special waste, IEPA documents also refer to this unit as a special waste landfill (IEPA, 1988a, 1989). The IEPA special waste permit and supplemental permit, required for disposal of the waste in SWMU 1, are No. 1975-2-OP and 1991-300-SP.

The Wastewater Treatment System (SWMU 7) discharges treated wastewater from the foundry process and sanitary sources to the Illinois River from three outfalls (001A, 001B, 001C). The discharges from SWMU 7, sanitary, and noncontact cooling water sources are regulated under NPDES Permit No. IL0001830, effective September 22, 1990 (IEPA, 1990b). Caterpillar releases noncontact cooling water to the Illinois River without treatment (Caterpillar, 1991). The primary parameters to be monitored and limited for the sanitary and process outfall (outfall 001A) are pH, BOD₅, total suspended solids, chromium (total), chromium (hexavalent), iron, zinc, phenol, oil and grease, fecal coliform, and chlorine residual. The primary parameters to be monitored for the noncontact cooling water outfall (001B) are temperature, pH, and oil and grease. The primary parameters to be monitored and limited for the dust collection scrubber wastewater outfall (outfall

001C) are pH, total suspended solids, oil and grease, copper, lead, zinc, chlorine residual, and phenol. In addition, Caterpillar will continually evaluate the potential for discharge of other pollutants not specifically limited in the permit (Caterpillar, 1990).

A RCRA compliance inspection was conducted by IEPA in September 1987. Violations related to an inadequate contingency plan were noted (IEPA, 1987). Caterpillar responded to these violations; however, no further documentation was available (Caterpillar, 1987). Other inspections were conducted in December 1988, July 1989 and May 1990. Inspectors noted violations related to hazardous waste storage tank violations (referring to SWMU 9) (IEPA, 1988b), violation of special waste handling (IEPA, 1989) and failure to file a closure plan (IEPA, 1990a). No documentation regarding resolution of these violations was available to RAI.

The facility has operating air permits for the following areas: Boiler 1 (coal), Boiler 2-3 (coal), Boiler 4-5 (coal), Boiler 1 (oil), Boiler 2-3 (gas), Boiler 5 (oil), Kewanee Boilers, D-Core, D-Mold Line 1 and 2, D-Mold Line 4, D-Melting, Phase II Melting, D-Finishing, 3500 Area, 3600 Area, D-Camshaft/Manufacturing Development, Pattern Shop, Organic Liquid, Bulk Chemical, and Open Burning (Caterpillar, 1993a). The facility has no history of odor complaints or documented air permit compliance problems.

2.6 ENVIRONMENTAL SETTING

This section describes the climate, flood plain and surface water, geology and soils, and ground water in the vicinity of the Caterpillar facility.

2.6.1 Climate

The climate in Peoria County is continental, with wide variations in temperature between summer and winter. The average daily temperature is 50.4°F. The lowest average daily temperature is 13.3°F in January. The highest average daily temperature is 85.5°F in July (NOAA, 1990).

The average annual precipitation for Peoria is 34.89 inches (NOAA, 1990). The mean annual lake evaporation for the area is about 32 inches (USDC, 1968). The 1-year, 24-hour maximum

rainfall is 5.06 inches (NOAA, 1990). Average annual snowfall is 24.7 inches. Precipitation is somewhat evenly distributed throughout the year, with slightly more falling in spring and summer (NOAA, 1990).

The prevailing wind is from the south, except during the winter months, when winds from the west-northwest may be more frequent. Average annual wind speed is 10.0 miles per hour (mph). Average wind speed is highest in March, at 12.1 miles per hour. The average relative humidity is about 71 percent. Humidity is higher at night, and the average at dawn is about 83 percent (NOAA, 1990).

2.6.2 Flood Plain and Surface Water

The portion of the Caterpillar facility property south of the main plant buildings lies within the 500-year flood plain but outside the 100-year flood plain. The remainder of the property is outside the 500-year flood plain (FEMA, 1983). The nearest surface water body is the Illinois River which is located next to the southern property line and is approximately 700 feet from the nearest Caterpillar building. The Illinois River is used for recreational, agricultural, industrial and municipal water supply purposes. This surface water body discharges to the Mississippi River.

Surface water drainage at the facility is to the south toward the Illinois River. Storm water discharges (drains) rapidly toward the Illinois River. Two major surface water bodies are in the area. The Little Lamarsh Creek runs north and south basically through the center of the Caterpillar property, between Buildings B and D and drains into the Illinois River. Little Lamarsh Creek is used for drainage purposes. The other main surface water body is Pond Lily Lake, located approximately 1 mile southeast of Caterpillar's Building B and is just north of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands before it was altered for the current land use (USDA, 1992). There are no drinking water wells on site. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile north (upgradient) from Caterpillar. According to the facility representative, additional wells may be on industrial property east of the facility (Caterpillar, 1993a).

2.6.3 Geology and Soils

The facility is underlain by Orthents-Urban Land according to the Peoria County Soil and Water Conservation District (PCSWCD). Accordingly, this unit is defined as disturbed and/or developed lands, consisting mainly of fill, and often where underlying or original soils can no longer be distinguished. The soil in the vicinity of the plant is sandy loam to a depth of 13 feet. Below this is a layer of compacted blue clay from 2 to 8 feet thick. To the east of the facility are original deposits classified as Dickinson soils. The topsoil is characterized by very dark brown, very dark gray and dark brown friable fine sandy loam. The subsoil is characterized by very dark grayish brown, dark brown and yellowish brown friable fine sandy loam in the upper part and yellowish brown loamy sand in the lower part. The underlying material is principally brown sand to a depth of 60 inches (PCSWCD, 1992).

No site-specific geologic information was available, but in the vicinity of the Caterpillar facility, the surficial geology consists of Quaternary till. This is primarily sandy and slightly clayey silty till divided into two beds, often with intercalated lenses of sand and gravel. The entire land surface of Peoria County consists of unconsolidated glacial deposits, or drift, of Pleistocene (Wisconsinan) age, as well as alluvium derived from subsequent erosion of glacial materials by water (Bergstrom, 1956).

The uppermost bedrock beneath the glacial drift at the facility is Silurian in age. The rocks consist of limestones and dolomites with interbedded calcareous siltstones, and the total thickness may be greater than 250 feet. Beneath the Silurian rocks are dark gray to pale greenish-gray Ordovician shales, which are only identified in well records (Bergstrom, 1956).

2.6.4 Ground Water

In the vicinity of the facility, water may be supplied from Pleistocene sand and gravel deposits or from upper bedrock limestone of the Keokuk and Burlington Formations, which are Mississippian in age. Close proximity to the Illinois River generally produces sand and gravel aquifers which are highly permeable and excellent sources of water. However, according to the facility representative, the ground water under the facility is of poor quality and quantity, and

Caterpillar uses water from the Illinois River (Caterpillar, 1993a). Along the Illinois River in the Peoria region, the Sankoty sand and younger glacial outwash deposits are among the most prolific aquifers in the state (Bergstrom, 1956). The Sankoty sand, which forms a thick fill in and along the Illinois River valley, is the principal aquifer for municipal and industrial supplies. The thickness of this sand varies from 50 feet to 150 feet along the Illinois River, and may reach a maximum of up to 300 feet along the uplands to the west. Ground water flow at the facility is to the south. The deep wells are developed in dolomites of the Galena-Platteville Formations which are Ordovician in age (Bergstrom, 1956).

2.7 RECEPTORS

The Caterpillar facility occupies 608 acres in an industrial area in Mapleton, Illinois. Mapleton has a population of about 220. Caterpillar employs about 800 people.

The Caterpillar facility is bordered on the north by U.S. Route 24/Illinois Route 9 and the Village of Mapleton, on the west by open land and farmland, on the south by the Illinois River, a barge terminal and warehouse, and on the east by two chemical plants. The nearest school, Mapleton School, is located about 0.5 mile north of the facility. Facility access is controlled by fencing, security guards and video-monitoring (Caterpillar, 1992a). The nearest surface water body is the Illinois River, located on the south property line of the facility and is used for recreational, industrial, agricultural, and municipal water supply purposes. Other surface water bodies in the area include the Little Lamarsh Creek and Pond Lily Lake.

The Little Lamarsh Creek runs north and south, through the center of the Caterpillar property, between Buildings B and D and drains into the Illinois River. Pond Lily Lake is located approximately 1 mile southeast of Caterpillar's Building B and is on the north side of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands and was altered for the current land use (USDA, 1992). There are no drinking water wells at the facility. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile north from Caterpillar, although additional wells may be located on industrial property to the east of the facility (Caterpillar, 1993a).

3.0 SOLID WASTE MANAGEMENT UNITS

This section describes the 13 SWMUs identified during the PA/VSI. The following information is presented for each SWMU: description of the unit, dates of operation, wastes managed, release controls, history of documented releases, and RAI observations.

SWMU 1

Waste Sand Landfill Area

Unit Description:

The Waste Sand Landfill Area is an 82-acre landfill located in the southern section of the Caterpillar plant property. The landfill manages foundry sand from the Mapleton plant, consisting of core sand and waste foundry sand. Waste sand and broken cores (sand) are delivered to the landfill by trucks, scrapers and other hauling equipment. The waste materials are moved into place and compacted using common earthworking equipment. This landfill area also accepts dust waste from the Facility Baghouse Dust Collectors (SWMU 6). The total capacity of the landfill is greater than 2 million cubic yards. The landfill covers an area of approximately 2,300 feet by 1,600 feet (see Photograph No. 1)

Date of Startup:

The unit began operations in the mid-1970s.

Date of Closure:

The unit is currently operational and is permitted by the State of Illinois as a Solid Waste Disposal Site. The estimated year for final closure is 1995 to 1997.

Wastes Managed:

The unit manages waste sand, broken cores (sand), and dust waste. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates this waste as nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. Hence, no waste designation has been

provided. The Waste Sand Landfill Area has monitoring wells which were installed in 1991 and 1992 (Caterpillar, 1993a).

Release Controls:

The site was originally prepared by constructing levees on all sides and stockpiling the virgin soil for final cover. This unit has no liner. Monitoring wells are located at this unit.

History of

Documented Releases:

No releases from this unit have been documented. Data from ground water monitoring are submitted every quarter to IEPA and no indication of ground water contamination has been identified.

Observations:

The unit appears to be clean and well kept. No visual sign of releases was observed.

SWMU 2

Former Hazardous Waste Drum Storage Area

Unit Description:

The Former Hazardous Waste Drum Storage Area is surrounded by an 8-foot fence and is located south of Building Q. The area consists of an all gravel cover and occupies a space of approximately 80 feet by 80 feet. This area is no longer active (see Photograph No. 2).

Date of Startup:

It is estimated to be during the 1980s.

Date of Closure:

The unit is inactive; it is unknown when it became inactive. It is intended to go through RCRA closure following approval of the closure plan, which has been submitted to IEPA.

Wastes Managed:

Hazardous wastes have been stored in this area, but according to a facility representative, no records are available to indicate which specific wastes were stored. The unit could have managed waste

refractory coating (D001, F002, U226, nonhazardous), waste resins (D001, D002, F002, U122, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous), unused cooling tower chemicals (D001, D002, nonhazardous), waste off-specification chemical (U226) and waste grease (D008, nonhazardous).

Release Controls:

No release controls were observed. Drums were originally stored on a gravel covered area.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

There were no drums left in this area. No visual signs of release were observed.

SWMU 3

Indoor Hazardous Waste Drum Storage Area

Unit Description:

The Indoor Hazardous Waste Drum Storage Area is located inside Building V. It consists of a concrete floor enclosed by two adjacent walls and a single strand chain-type fence. The area of this unit is approximate 30 feet by 60 feet. (See Photograph No. 3).

Date of Startup:

It is estimated to be during the 1980s.

Date of Closure:

The unit is active. It is intended to go through RCRA closure following approval of the closure plan, which has been submitted to IEPA.

Wastes Managed:

Hazardous wastes have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). The unit could have managed waste refractory

coating (D001, F002, U226, nonhazardous), waste resins (D001, D002, F002, U122, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous), unused cooling tower chemicals (D001, D002, nonhazardous), waste off-specification chemical (U226), and waste grease (D008, nonhazardous).

Release Controls:

The unit is inside, on a concrete floor.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

At the time of inspection, the unit contained approximately 70 drums of waste, all of which were stored on wooden skids. A brief examination of the area showed the drums containing waste grease (D008, nonhazardous), waste resin solutions (D001, D002, F002, U122, nonhazardous), waste janitorial products (D002, nonhazardous), and unused commercial pesticides. No visual signs of releases were observed.

SWMU 4

Waste Oil Sump Area

Unit Description:

The Waste Oil Sump Area is located in Building V. It is a concrete pit where nonhazardous waste oil is obtained from changing oil in various vehicles. The opening appears to be 8 feet by 8 feet by 3 feet deep. The waste oil is pumped out of the sump into the recycler's truck and is transported to various waste oil recyclers. Waste oil (nonhazardous) is also generated from various types of machinery (see Photograph No. 4).

Date of Startup:

It is estimated to be the early 1980s.

Date of Closure:

The unit is active.

Wastes Managed:

The unit manages nonhazardous waste oil.

Release Controls:

The unit is indoors and constructed of concrete.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

No visual signs of release were observed in the area of the sump.

SWMU 5

Hazardous Waste Drum Storage Area

Unit Description:

The Hazardous Waste Drum Storage Area is in a separate enclosure located north of Building V. The enclosure is called Y-16. The enclosure consists of three walls and a metal roof with a cyclone-type fence on the fourth side. The enclosure occupies an area approximately 12 feet by 30 feet, on concrete. The concrete floor is encompassed by a curb about 4 inches high (see Photograph No. 5).

Date of Startup:

It is estimated to be during the 1980s.

Date of Closure:

The unit is active. It is intended to go through RCRA closure following approval of the closure plan, which has been submitted to IEPA.

Wastes Managed:

Hazardous wastes have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). The unit could have managed waste refractory coating (D001, F002, U226, nonhazardous), waste resins (D001, D002, F002, U122, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous),

unused cooling tower chemicals (D001, D002, nonhazardous), waste off-specification chemical (U226), and waste grease (D008, nonhazardous).

Release Controls:

The unit is on a concrete slab with a 4-inch-high curb encompassing its perimeter.

History of

Documented Releases:

No releases from the unit have been documented.

Observations:

The unit contained approximately 15 drums at the time of the VSI. No visual signs of release were observed.

SWMU 6

Facility Baghouse Dust Collectors

Unit Description:

The Facility Baghouse Dust Collectors are an air pollution control system, used to control solid waste particulate emissions to the atmosphere in the facility's process areas. The baghouses are constructed of 10-gauge mild steel and the bags are made of polyester felt. The baghouses are located in three areas: Melting (30 units), Finishing (13 units), and 3500 Cell Area (5 units). The total capacity of the baghouses by area are Melting, 460,000 cubic feet per minute (cfm); Finishing, 485,000 cfm; and 3500 Cell Area, 125,000 cfm. The waste particulates captured in the collectors are discharged downward to hoppers at the bottom of each collector. The waste particulates are then discharged onto a conveyor system, which transports the waste particulates to a final storage hopper. The waste particulate collected in the hopper is then mixed with waste sand and water and taken to SWMU 1 (see Photograph No. 6).

Date of Startup:

It is estimated to be 1978.

Date of Closure:

This unit is active.

Wastes Managed:

This unit manages dust waste from the foundry process. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the dust waste as a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste was not provided by Caterpillar. Hence, no waste designation is given.

Release Controls:

There were no release controls observed.

History of

Documented Releases:

No releases from the unit have been documented.

Observations:

The dust collectors appeared sound and well kept. No visual signs of releases were observed.

The Wastewater Treatment System is used to clean up water from the

SWMU 7

Wastewater Treatment System

Unit Description:

foundry process and sanitary wastewater before it is discharged into the Illinois River. Caterpillar's combined industrial and sanitary wastewater treatment system has a maximum design capacity of 5 million gallons per day. It is located inside Building RR. Caterpillar's wastewater treatment facility is extensive and constructed of a variety of materials. The most common materials are concrete and steel. The facility generated oil skimmings and sludge. There are 6,000 square feet of floor area where the sludge is deposited during cleanout of the treatment process. The sludge consists of solids which settle out during the treatment process. The sludge consists mainly of waste sand and dust (see Photographs No. 7, 8, and 9).

Date of Startup:

The current system was started in the early 1990s.

Date of Closure:

The unit is active.

Wastes Managed:

This unit manages dewatered sludge (nonhazardous).

Release Controls:

The system is partially inside a building with a concrete floor. There were no other release controls observed.

History of

Documented Releases:

No releases from the unit have been documented.

Observations:

The unit appeared sound and well kept. No visual signs of releases were observed.

SWMU 8

Former Hazardous Waste Drum Storage Marshalling Area

Unit Description:

The Former Hazardous Waste Drum Storage Marshalling Area is located inside Building B, at the southwest corner alongside the west wall. The unit occupies an area of approximately 8 feet by 40 feet of concrete floor. This area is no longer in use. It was originally used as a temporary drum drop-off storage area before the drums were moved again to a more permanent storage area. Storage for one to two days is considered temporary storage by the Caterpillar personnel (see Photograph No. 10).

Date of Startup:

It is estimated to be during the 1980s.

Date of Closure:

The unit is inactive; it is unknown when it became inactive. It is intended to go through RCRA closure following approval of the closure plan, which has been submitted to IEPA.

Wastes Managed:

The unit has stored waste off-specification chemical (U226) and waste resins (D001, D002, F002, U122, nonhazardous) (IEPA, 1985).

Other hazardous waste may have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). Other wastes may have included waste refractory coating (D001, F002, U226, nonhazardous), waste core catalyst (D001, D002, nonhazardous), waste janitorial products (D002, nonhazardous), unused cooling tower chemical (D001, D002, nonhazardous), and waste grease (D008, nonhazardous).

Release Controls:

The unit is inside a building on a concrete floor.

History of

Documented Releases:

No releases from the unit have been documented.

Observations:

There were no drums of waste in this area. No visual signs of release were observed.

SWMU 9

Waste Scrubber Liquor Tank

Unit Description:

The Waste Scrubber Liquor Tank discharges waste triethylamine scrubber liquor through pipes, by gravity, from scrubbers located on the second floor to aboveground storage tanks located on the basement level. The tanks are indoors and on a concrete floor. The scrubber liquor is transferred from the storage tanks to a highway tanker truck by hauling it in a small, in-house (approximately 400-gallon) tanker. The waste liquor is then transported to Clean Harbors of Cleveland, Ohio for aqueous organic treatment (Caterpillar, 1992b).

Date of Startup:

It is estimated to be during the late 1970s or early 1980s.

Date of Closure:

The unit is active.

Wastes Managed:

This unit manages waste triethylamine scrubber liquor (D002,

nonhazardous).

Release Controls:

No release controls were observed for this unit.

History of

Documented Releases:

No releases from the unit have been documented.

Observations:

During the VSI, two triethylamine product USTs were represented as this unit. Information gained after the VSI determined the two USTs were misidentified (Caterpillar, 1992b). The room where this unit is located and the associated ASTs were not observed during the VSI.

SWMU 10

Phenolic Wastewater Storage Tank

Unit Description:

The Phenolic Wastewater Storage Tank was located outdoors, along the west wall of Building B. The unit stored nonhazardous phenolic wastewater that was generated during the core manufacturing process. According to a facility representative, this aboveground tank is believed to have had a capacity greater than 500 gallons and was constructed of steel. There was no concrete pad associated with this unit.

Date of Startup:

The unit began operations in the mid-1970s.

Date of Closure:

The unit was removed from the facility in the early 1980s.

Wastes Managed:

The unit managed phenolic wastewater. According to Illinois Disposal Permit No. 781475 issued to the facility, the phenolic wastewater was nonhazardous (Caterpillar, 1992d).

Release Controls:

The unit had no release controls.

History of Documented Release:

According to a facility representative, some overflows occurred at this unit. Nonhazardous phenolic wastewater was released to the soil beneath and around the unit. Information regarding dates, amounts, and remedial actions associated with these releases was not available.

Observations:

The unit no longer exists at the facility. This SWMU was not identified until after the VSI; therefore, its location was not observed.

SWMU 11

Former PCB Storage Area

Unit Description:

The Former PCB Storage Area was located indoors, on the first floor of Building B, near the shipping area. According to the facility representative, the unit stored PCB waste exclusively. The area was approximately 15 feet by 20 feet and enclosed by fences and a concrete block wall. The unit was a curbed area on a concrete floor. PCB capacitors and other PCB items, such as used protective clothing, were stored in this area prior to shipment.

Date of Startup:

The unit began operations in approximately the early 1970s.

Date of Closure:

The unit became inactive during the mid-1980s. All contents of the unit were removed to the new PCB Storage Area (SWMU 12) and/or removed for disposal.

Wastes Managed:

The unit managed PCBs. All items were shipped off site for disposal by incineration or landfill.

Release Controls:

The unit was curbed and located on a concrete floor.

History of Documented

Release:

No releases from this unit have been documented.

Observations:

This SWMU was not identified until after the VSI; therefore, its

location was not observed.

SWMU 12

PCB Storage Area

Unit Description:

The PCB Storage Area is located indoors, on the first floor, in the west end of the Building N transformer room. The unit is approximately 30 feet by 30 feet and located in an electrical transformer room with concrete block walls and a concrete floor. The unit stores PCB capacitors and other items, such as used protective clothing, on plastic sheeting, prior to off-site disposal. All PCBs are packed into drums or crates. According to the facility representative, only small amounts of PCB equipment remain in the plant, so there is minimal use of this area. This unit replaced the Former PCB Storage Area (SWMU 11).

Date of Startup:

The unit began operations in the mid-1980s.

Date of Closure:

The unit is active.

Wastes Managed:

The unit manages PCBs prior to shipment off site for incineration. Intact capacitors may be stored in the area until packed. All PCB items are packed into drums or crates prior to disposal.

Release Controls:

The unit has plastic sheeting protecting a concrete floor. The area is inspected monthly by facility personnel.

History of Documented Release:

According to the facility representative, PCB fluid from a capacitor was cleaned from the floor of this unit. Post-cleanup sampling was conducted by the facility and according to the facility representative, the area was clean.

Observations:

This SWMU was not identified until after the VSI; therefore, its

location was not observed.

SWMU 13

Temporary PCB Storage Area

Unit Description:

The Temporary PCB Storage Area was located indoors in Building D. During cleanup from a fire involving PCB capacitors, a temporary drum storage area was constructed. Wooded curbs and a security barrier surrounded an area of concrete floor that was covered with multiple layers of plastic and sealed with tape. The unit stored drums of PCBs and debris from the clean up of the fire. IEPA approved the cleanup of the PCB spill (IEPA, 1985).

Date of Startup:

The unit began operations in the summer of 1984.

Date of Closure:

The unit ceased operating in late 1984 or early 1985. All plastic and tape were removed and shipped off site for disposal. IEPA approved the cleanup of the PCB spill.

Wastes Managed:

The unit managed PCBs, such as capacitors, used absorbent, protective clothing, and fire debris. All material was shipped off site for disposal by incineration.

Release Controls:

The unit had layers of plastic sheeting, sealed with tape, covering wooden curbs and a concrete floor.

History of Documented Release:

No releases have been documented for this unit.

Observations:

This SWMU was not identified until after the VSI; therefore, its location was not observed.

4.0 AREAS OF CONCERN

RAI identified four AOCs during the PA/VSI. These are discussed below and their locations are shown on Figure 3.

AOC 1

Aboveground Storage Tank Split-Pipeline Leak Area

On December 1, 1982, there was a gasoline pipeline leak. This area is located immediately south of Building B. The leak occurred from a split in a pipe that fed gasoline from an AST into pumps for vehicles. The line was shut off. The exact volume of the spill is not known. The leak was reported to NRC on December 1, 1982. According to a facility representative, sampling and any necessary removal and proper disposal of soil is scheduled for the near future (Caterpillar, 1992a). Until remediation is completed and approved by IEPA, the spill is considered an AOC.

AOC 2

Sulfuric Acid Leak Area

On November 6, 1990, there was a sulfuric acid leak from an acid feed line for the wastewater treatment plant, outdoors of Building RR. The leak was reported to NRC on the November 7, 1990. The leak had contaminated soil in the immediate area. The maximum amount of sulfuric acid released was 2,420 pounds. Twenty-two 85-gallon drums of contaminated material were removed by Caterpillar personnel and shipped out (Caterpillar, 1993a). There is no documentation of (1) where the soil was removed, (2) sampling results to confirm that no contamination exists, or (3) IEPA approval; therefore this spill area is considered an AOC (see Photograph No. 11).

AOC 3

Abandoned Aboveground Storage Tank Leak Area

In mid-January 1992, Caterpillar detected a gasoline leak in what appeared to be an abandoned AST. This incident occurred just before RAI conducted the VSI and minimal information is available regarding the leak. Based on some tests performed on site, some contamination was detected. The nature of the tests is not known. It is understood that Caterpillar intends to perform further testing and to remediate as required. The incident was reported to the Illinois Emergency Service and Disaster Agency (IESDA) who then notified IEPA about the release. No further information was given to RAI regarding this release (Caterpillar, 1992c).

AOC 4

Diesel Fuel Truck Saddle Tank Spill Area

On December 19, 1991, a truck (not belonging to Caterpillar) had an accident at the Caterpillar facility. As a result of the accident, a diesel fuel saddle tank was ripped away from the truck causing a diesel fuel spill which contaminated the soil in that area. The owner of the truck contracted a spill response company to clean up the area. Some contaminated soil was removed and disposed of by the spill response company. There is no documentation of sampling or where the contaminated soil was shipped (Caterpillar, 1992a).

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5.0 CONCLUSIONS AND RECOMMENDATIONS

The PA/VSI identified 13 SWMUs and four AOCs at the facility. Background information on the facility's location, operations, waste generating processes, history of documented releases, regulatory history, environmental setting, and receptors is presented in Section 2.0. SWMU-specific information, such as the unit's description, dates of operation, wastes managed, release controls, history of documented releases, and observed condition, is discussed in Section 3.0. AOCs are discussed in Section 4.0. Following are RAI's conclusions and recommendations for each SWMU and AOC. Table 3 identifies the SWMUs and AOCs at the Caterpillar facility and recommended further actions.

SWMU 1

Waste Sand Landfill Area

Conclusions:

The unit is currently operational and is permitted by the State of Illinois as a Solid Waste Disposal Site. The unit manages waste sand and dust. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA claims that the waste is a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste and a copy of the current special waste disposal permit application were not provided by Caterpillar. This unit has monitoring wells which were installed in 1991 and 1992 (Caterpillar, 1993a). This unit has no liner. According to the facility representative, monitoring well data are submitted quarterly to IEPA and no ground water contamination has been identified (Caterpillar, 1993b). The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is unknown because the hazardous constituent content in the waste disposed in this unit is unknown.

Recommendations:

RAI recommends soil sampling to determine if hazardous constituent contamination does exist at this unit. If contamination is found, ground water monitoring should continue and the contamination

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TABLE 3 SWMU AND AOC SUMMARY

	SWMU	Dates of Operation	Evidence of Release	Recommended Further Action
1.	Waste Sand Landfill Area	Mid-1970s to present	None	Perform soil sampling to determine if hazardous constituent contamination exists. If so, remediation of the contamination and continued ground water monitoring is recommended. Perform hazardous constituent analyses on waste sand and dust.
2.	Former Hazardous Waste Drum Storage Area	1980s to unknown	None	Complete RCRA closure as planned.
3.	Indoor Hazardous Waste Drum Storage Area	1980s (estimated) to present	None	Complete RCRA closure as planned.
4.	Waste Oil Sump Area	Early 1980s to present	None	No further action is recommended at this time.
5.	Hazardous Waste Drum Storage Area	1980s (estimated) to present	None	Complete RCRA closure as planned.
6.	Facility Baghouse Dust Collectors	1978 (estimated) to present	None	Perform waste analysis of waste dust to determine if hazardous. If so, sampling may be necessary of all environmental media.

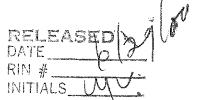




TABLE 3 (continued)

SWMU AND AOC SUMMARY

SWMU	Dates of Operation	Evidence of Release	Recommended Further Action
7. Wastewater Treatment System	Early 1990s to present	None	No further action is recommended at this time.
8. Former Hazardous Waste Drum Storage Marshalling Area	1980s (estimated) to unknown	None	Complete RCRA closure as planned.
9. Waste Scrubber Liquor Tank	Late 1970s or early 1980s (estimated) to present	None	No further action is recommended at this time.
10. Phenolic Wastewater Storage Tank	Mid-1970s to early 1980s	According to the facility representative, overflows to soil occurred at this time.	Soil sampling should be conducted to determine if contamination from previous releases occurred.
11. Former PCB Storage Area	Early 1970s to mid- 1980s	None.	No further action is recommended at this time.
12. PCB Storage Area	Mid-1980s to present	PCB capacitor fluid to floor.	No further action is recommended at this time.
13. Temporary PCB Storage Area	Summer 1984 to early 1985	None.	No further action is recommended at this time.

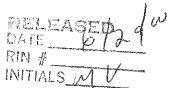




TABLE 3 (continued)

SWMU AND AOC SUMMARY

	AOC	Dates of Operation	Evidence of Release	Recommended Further Action
1.	Aboveground Storage Tank Split-Pipeline Leak Area	1982 to present	AST Gasoline Leak December 1, 1982	Soil testing and tank integrity testing; remediation if necessary.
2.	Sulfuric Acid Leak Area	1990 to present	Sulfuric Acid Leak November 6, 1990	Soil testing and remediation if necessary.
3.	Abandoned Aboveground Storage Tank Leak Area	Mid-January 1992 to present	AST Gasoline Leak, January 1992	Soil testing and tank integrity testing; remediation if necessary.
4.	Diesel Fuel Truck Saddle Tank Spill Area	One-time spill 1991	Broken Saddle Tank on Truck December 1991	Soil testing and remediation if necessary.



should be remediated. RAI also recommends that hazardous constituent analyses be performed on the waste sand and dust.

SWMU 2

Former Hazardous Waste Drum Storage Area

Conclusions:

The unit is no longer active. Hazardous waste was originally stored on gravel-covered ground which is surrounded by an 8-foot fence. This unit is intended to go through formal RCRA closure following approval of the closure plan, which has been submitted to IEPA. The potential for future release of hazardous constituents to ground water, surface water, air, or on-site soils is low. The past potential for release of hazardous constituents to on-site soils was low to moderate because the soil was unprotected, although there has been no history of documented releases. The past potential for release of hazardous constituents to ground water, surface water, or air is low because the waste was stored in drums and if there was a spill it would be small in quantity.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 3

Indoor Hazardous Waste Drum Storage Area

Conclusions:

This unit is active and stores drums containing hazardous wastes. The waste is stored indoors, on a concrete floor. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure following approval of the closure plan, which has been submitted to IEPA. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

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SWMU 4

Waste Oil Sump Area

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Conclusions:

This unit is located indoors and the area is constructed of concrete. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soil is low.

Recommendations:

RAI recommends no further action for this unit.

SWMU 5

Hazardous Waste Drum Storage Area

Conclusions:

This unit is outdoors and consists of a concrete floor with a 4-inch-high curb around its perimeter. Three walls and the roof are made of metal and the fourth side is a cyclone-type fence. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure following approval of the closure plan, which has been submitted to IEPA. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 6

Facility Baghouse Dust Collectors

Conclusions:

The dust collected from this unit is discharged into a storage hopper where it is mixed with sand and water and transported to SWMU 1. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is moderate to high since the waste designation is unknown and no release controls were observed.

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Recommendations:

RAI recommends that the waste be sampled for hazardous constituents. If the waste is determined to be hazardous, sampling at this unit for all environmental media may be necessary.

SWMU 7

Wastewater Treatment System

Conclusions:

This system cleans mill water from the foundry process and sanitary sources, and discharges the effluent into the Illinois River. The treatment system is located inside a building with concrete floors and pit walls. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air or on-site soils from this unit is low.

Recommendations:

RAI recommends no further action for this unit.

SWMU 8

Former Hazardous Waste Drum Storage Marshalling Area

Conclusions:

This unit is no longer active. Hazardous waste was originally stored indoors, on a concrete floor. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure following approval of the closure plan, which has been submitted to IEPA. The potential for release of hazardous constituents to ground water, surface water, air, and on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 9

Waste Scrubber Liquor Tank

Conclusions:

The waste triethylamine scrubber liquor (D002, nonhazardous) flows through pipes, by gravity, from scrubbers located on the second floor to aboveground storage tanks located on the first floor (basement

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level). The tanks are indoors and on a concrete floor. The potential for release of hazardous constituents to ground water, air, surface water, or on-site soils from this unit is low. The scrubber liquor is transferred from the storage tanks to the highway tanker truck by hauling it in a small, in-house (approximately 400 gallon) tanker.

Recommendations:

RAI recommends no further action for this unit.

SWMU 10

Phenolic Wastewater Storage Tank

Conclusions:

This unit stored phenolic wastewater prior to on-site biological treatment. Overflows to exposed soil occurred at the unit. The unit was removed from the facility in the early 1980s. The current potential for release of hazardous constituents to ground water, surface water, air and on-site soils is low or nonexistent.

Recommendations:

Soil sampling should be conducted to determine if contamination from the previous releases has occurred.

SWMU 11

Former PCB Storage Area

Conclusions:

The unit is indoors and on a curbed concrete floor in Building B. All PCBs were stored either in intact capacitors or in drums or crates. Therefore the past potential for a release to environmental media was probably low. The area was cleaned after its use. The potential for release of hazardous constituents to ground water, air, surface water, or on-site soils from this unit is low because the unit is no longer in use and no releases were documented.

Recommendations:

RAI recommends no further action for this unit.

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SWMU 12

PCB Storage Area

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Conclusions:

The unit is located indoors on a plastic-covered concrete floor in Building N. Any item which might release PCBs is immediately placed in a drum. Therefore, the potential for release of hazardous constituents to ground water, air, surface water, or on-site soils from this unit is low.

Recommendations:

RAI recommends no further action for this unit.

SWMU 13

Temporary PCB Storage Area

Conclusions:

The unit is located indoors. During its temporary use for storing cleanup debris following a capacitor fire, drums were managed on a plastic-covered, curbed concrete floor. No releases were documented for this unit and IEPA approved the cleanup. Therefore, the past potential for a release to environmental media was probably low. The unit is no longer in use and the plastic floor covering was shipped off site for disposal. Therefore, the potential for release of hazardous constituents to ground water, air, surface water, or on-site soils from this unit is low.

Recommendations:

RAI recommends no further action for this unit.

AOC 1

Aboveground Storage Tank Split-Pipeline Leak Area

Conclusions:

The leak occurred from a split in a pipe that fed gasoline from an AST into the vehicles. The split in the pipe occurred about 10 inches below grade, below the AST, releasing gasoline to the on-site soils. The potential for release of hazardous constituents to surface water and air is low because the split pipe is considered a one-time incident. The potential for release of hazardous constituents to ground water is

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moderate. According to the facility representative, a consultant has been hired to assist with the cleanup of AOC 1. Sampling and any necessary removal and disposal of soil is scheduled for the near future (Caterpillar, 1993b).

Recommendations:

The soil surrounding the spill area should be tested for contamination. If soil contamination is discovered, the ground water should be tested for contamination. In addition, the tank integrity should be investigated. Remediation of the area should be performed if necessary.

AOC 2

Sulfuric Acid Leak Area

Conclusions:

The leak occurred outdoors, and had contaminated an area outside Building RR. The area was cleaned up by Caterpillar personnel, but there is no documentation of the cleanup procedures. The potential for releases of hazardous constituents to ground water, surface water, air, or on-site soils is low because this was an unusual incident and maintenance discipline should eliminate recurrence of the problem.

Recommendations:

The soil in this area should be tested for contamination. Remediation of the area should be performed if necessary.

AOC 3

Abandoned Aboveground Storage Tank Leak Area

Conclusions:

This leak occurred approximately one week before RAI conducted the VSI, and the information available was minimal. A gasoline leak was detected in what appeared to be an abandoned aboveground storage tank. Based on preliminary tests, contamination of the soil was detected. Further tests and remediation will be performed as required. Not knowing what was done to stop the leak or to prevent the leak from recurring, it seems apparent that the potential for future releases

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to soil is moderate to high. The potential for release to ground water is moderate because contaminants in the soil may leach to the ground water. The potential for releases to air and surface water is low because the tanks are aboveground and over 700 feet from the nearest surface water.

Recommendations:

The soil surrounding the tank should be tested for contamination. In addition, the tank's integrity should be investigated. Remediation of the area should be performed if necessary.

AOC 4

Diesel Fuel Truck Saddle Tank Spill Area

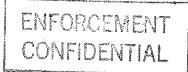
Conclusions:

The spill occurred when a diesel fuel saddle tank was accidentally ripped away from a truck. The spill contaminated the soil next to the roadway. Some contaminated soil was removed and disposed of by an outside spill response company. The potential for release to surface water or air is low or nonexistent due to the nature of the waste and the distance to surface water. The potential for release to ground water is moderate because there was no evidence of sampling results.

Recommendations:

The soil in this area should be tested for contamination. Remediation of the area should be performed if necessary.

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ATTACHMENT A

EPA PRELIMINARY ASSESSMENT FORM 2070-12



POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION				
01 STATE	02 SITE NUMBER			
L	ILD 052 664 364			

II. SITE NAME AND LOCATION			***	-			
01 SITE NAME (Legal, common, or descriptive name of	f site)	02 STREET	, ROUTE NO., O	R SPECIFIC LOCA	TION IDENTIFIER		
Caterpillar Inc.		8825 W. F	loute 24				
O3 CITY		04.074.75	A				
Mapleton		IL O4 STATE	05 ZIP CODE 61547	06 COUNTY Peoria	07 COUNTY CODE	08 CONG DIST	
09 COORDINATES: LATITUDE	LONGITUDE	ļ <u>. </u>		1 40014	CODE	DIST	
	LONGITUDE	·					
40 <u>33 035.N</u>	89 44 008.W	1					
10 DIRECTIONS TO SITE (Starting from neerest public	road)						
The facility is located on Route 24 approximately 7 mile	es south of Bartonsville and	miles south	of Route 9.				
III. RESPONSIBLE PARTIES						** · · · · · · · · · · · · · · · · · ·	
01 OWNER (if known) Caterpillar, Inc.			(Business, maili	ng residential)		*	
O3 CITY		100 N.E. A					
Peoria		IL O4 STATE	05 ZIP CODE 61629	06 TELEPHONE (309) 675-1000			
07 OPERATOR (If known and different from owner)		1	(Business, meili				
Caterpillar, Inc.		9826 W. F	oute 24	•			
09 CITY Mapleton			11 ZIP CODE	12 TELEPHONE			
13 TYPE OF OWNERSHIP (Check one)		IL	61547	(309) 633-860	 		
A. PRIVATE D B. FEDERAL:		□ C.	STATE	D. COUNTY	□ E. MUN	JICIDA!	
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION					
01 STATE	02 SITE NUMBER				
IL.	ILD 052 664 364				

	TATES, QUANTITIES, AND CH	ARACTERISTICS			
01 PHYSICAL ST	ATES (Check all that apply)		ANTITY AT SITE	03 WASTE CHARACTERIST	100 (0) I I I I I
)	(Measures	of waste quantities	THE CHARACTERIST	тьа (ьп еск all that apply)
A. SOLID	DER, FINES TO F. LIQUID	must be	independent)	A. TOXIC	M. H. IGNITABLE
C. SLUDO		TON		B. CORROSIVE	🖪 I. HIGHLY VOLATIL
		'''-		C. RADIOACTIVE	J. EXPLOSIVE
D. OTHER		CUBIC YA	ARDS	D. PERSISTENT E. SOLUBLE	K. REACTIVE
	(Specify)	i		F. INFECTIOUS	L INCOMPATIBLEM. NOT APPLICABLE
		NO. OF D	RUMS	G. FLAMMABLE	- M. NOT ATT BEABLE
III. WASTE TY	DE				
CATEGORY	SUBSTANCE NAME	TOL GROSS AMOUNT	02 UNIT OF MEASURE		
SLU		OT GROSS AWOUNT		D3 COMMENTS	***
	SLUDGE		80 cubic yards/day	······································	''' '' ''
OLW	OILY WASTE		1000 gallons/month		
SOL	SOLVENTS		300 gallons/month		
PSD	PESTICIDES				
occ	OTHER ORGANIC CHEMICALS	· · · · · · · · · · · · · · · · · · ·	3000 gallons/month		
IOC			<u> </u>		
	INORGANIC CHEMICALS		660 galions/year	· · · · · · · · · · · · · · · · · · ·	
ACD	ACIDS				
BAS	BASES	1			
MES	HEAVY METALS		<u> </u>		
V. HAZARDO	US SUBSTANCES (See Appen	div for most for			
1 CATEGORYI	02 SUBSTANCE NAME	03 CAS NUMBER	nuy cited CAS Numbers	s)	
	TO TO THE TANK	OS CAS NUMBER	04 STURAGE/DISPUSAL N	ETHOD 05 CONCENTRATION	
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FEEDSTOCK	S (See Annendiv for CAS No.	zhersi.			
	S (See Appendix for CAS Num		CATECORY		
	S (See Appendix for CAS Num 01 FEEDSTOCK NAME	nbers) 02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION				
01 STATE	02 SITE NUMBER			
IL.	HD 052 664 364			

01 A. GROUNDWATER CONTAMINATION	02 OBSERVED (DATE:)	□ POTENTIAL	ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	1	- ALLIGED
None identified.			
01 B. SURFACE WATER CONTAMINATION	02 DOBSERVED (DATE:)	□ POTENTIAL	ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
01 D.C. CONTAMINATION OF AIR	02 G OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
01 D. FIRE/EXPLOSIVE CONDITIONS	02 DOBSERVED (DATE:)	O POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		© ALLEGED
None identified.			
1 E. DIRECT CONTACT	02 OBSERVED (DATE:)	P. DOTCOTA	
33 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	O POTENTIAL	□ ALLEGED
01 F. CONTAMINATION OF SOIL	0.2 0.00(0.1/10)		
33 AREA POTENTIALLY AFFECTED: Unknown	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
Based on the four AOCs, further tests are recommended to	determine if contamination exists and what are	eas it covers.	
1 D G. DRINKING WATER CONTAMINATION	02 DOBSERVED (DATE:	□ POTENTIAL	
3 POPULATION POTENTIALLY AFFECTED:		A FOIENTIAL	ALLEGED
*	04 NARRATIVE DESCRIPTION	a Fotential	■ ALLEGED
one identified.			:
one identified. 1 D H. WORKER EXPOSURE/INJURY	04 NARRATIVE DESCRIPTION 02 II OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	□ ALLEGED
1 D H. WORKER EXPOSURE/INJURY 3 WORKERS POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:]		:
1 D H. WORKER EXPOSURE/INJURY 3 WORKERS POTENTIALLY AFFECTED: one identified.	02 D OBSERVED (DATE:]		: ALLEGED
1 D H. WORKER EXPOSURE/INJURY 3 WORKERS POTENTIALLY AFFECTED: one identified.	02 DOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	:
In a l. Population exposure/injury 3 Population Potentially Affected: 3 Population Potentially Affected: 3 Population Potentially Affected: 3 Population Potentially Affected:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION 02 OBSERVED (DATE:)	□ POTENTIAL	: ALLEGED
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION				
01 STATE	C2 SITE NUMBER			
IL	ILD 052 664 364			

II. HAZARDOUS CONDITIONS AND INCIDENTS (Cont			· · · · · · · · · · · · · · · · · · ·
04 NARRATIVE DESCRIPTION	02 DOBSERVED (DATE:)	POTENTIAL	■ ALLEGED
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Hone Maridings,			
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01 🗆 K. DAMAGE TO FAUNA	02 OBSERVED (DATE:)		
04 NARRATIVE DESCRIPTION (Include name(s) of species)	OZ G OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
None identified.			
01 DL. CONTAMINATION OF FOOD CHAIN	02 DOBSERVED (DATE:)	E COTCUTAL	
04 NARRATIVE DESCRIPTION	,	POTENTIAL.	☐ ALLEGED
None identified.			
01 M. UNSTABLE CONTAINMENT OF WASTES	02 D OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		- 70100
None Identified.			
01 IN. DAMAGE TO OFF-SITE PROPERTY	02 DOBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
04 NARRATIVE DESCRIPTION		_ · · · · · · · · · · · · · · · · · · ·	- ALLEGED
None identified.			
01 0. CONTAMINATION OF SEWERS, STORM DRAINS, W	VTPS OBSERVED (DATE:)	O POTENTIAL	□ ALLEGED
04 NARRATIVE DESCRIPTION			
None Identified.			
01 D P. ILLEGAL/UNAUTHORIZED DUMPING	02 D OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
04 NARRATIVE DESCRIPTION			
None identified.			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR	ALLEGED HAZARDS		
None identified.			
	•		
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS			
Based on the four AOCs it seems appropriate to conduc	ct further soil tests to determine the ex	ctent of contamination.	
V. SOURCES OF INFORMATION (Cite specific reference	ces; e.g., state files. sample analysis i	reports)	
/isual Site Inspection, January 22, 1992.	,,qre araryora, r		
CA FORM 2010 10/2 041			

ATTACHMENT B

VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS

VISUAL SITE INSPECTION SUMMARY

Caterpillar Inc. Mapleton, Illinois ILD 052 664 364

Date:

January 22, 1992

Facility Representatives:

Robert Kilgo, Corporate, Environmental Dept.

Carey French, Staff Engineer/Facilities Engineering

William E. Schulze, Jr., Utilities Engineering Superintendent

Inspection Team:

Arthur Marshalla, Resource Applications, Inc. (RAI)

Scott Tajak, RAI

Photographer:

Scott Tajak

Weather Conditions:

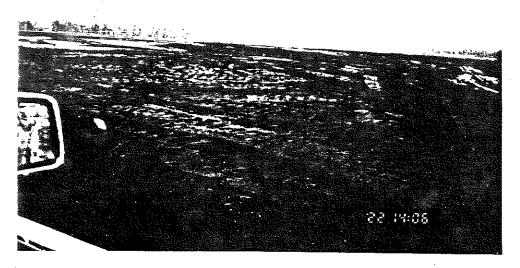
Rainy, temperature about 40°F

Summary of Activities:

The visual site inspection (VSI) began at 9:00 a.m. with an introductory meeting. The inspection team discussed the purpose of the VSI and the agenda for the visit. Facility representatives then discussed Caterpillar's past and current operations, solid wastes generated, and release history. Most of the information was exchanged on a question-and-answer basis.

The VSI tour began at 1:00 p.m. Mr. William E. Schulze, Jr. discussed specific operations at each area as we walked through the production areas. The inspection began inside at the main plant (Building D). We walked through the entire production line from the core making area, to the molding area (including machining and tooling) to the gray iron melting and pouring area, and finally to the finishing area. In addition to the above mentioned standard production line, there is also a special molding line for cylinder liners. The SWMUs observed during the inspection were clean and well maintained.

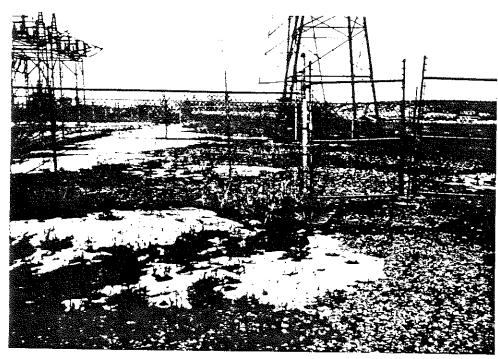
The tour was concluded at 3:30 p.m after which the inspection team held a brief exit meeting with Caterpillar representatives. The VSI was completed and the inspection team left the facility at 4:00 p.m.



Photograph No. 1 Orientation: Southwest

Description: Waste Sand Landfill Area.

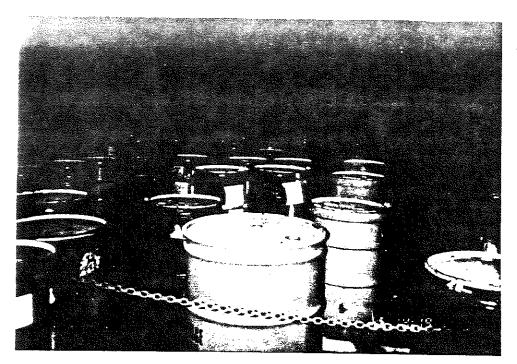
Location: SWMU 1 Date: 1/22/92



Photograph No. 2 Orientation: East

Location: SWMU 2 Date: 1/22/92

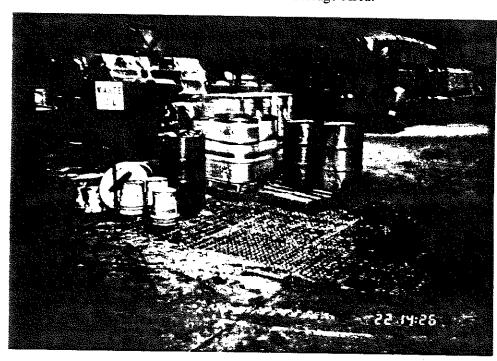
Description: South portion of the fenced-in area of Former Hazardous Waste Drum Storage Area.



Photograph No. 3 Orientation: South

Description: Chained-in Indoor Hazardous Waste Drum Storage Area.

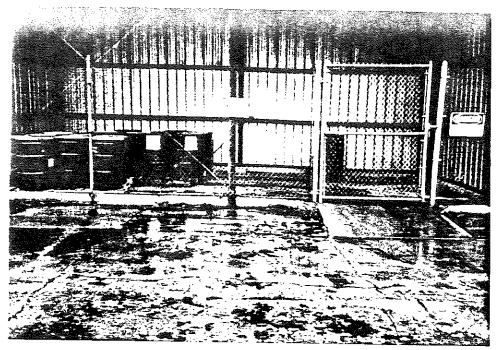
Location: SWMU 3 Date: 1/22/92



Photograph No. 4 Orientation: West

Description: Waste Oil Sump Area showing floor grating over sump area.

Location: SWMU 4 Date: 1/22/92



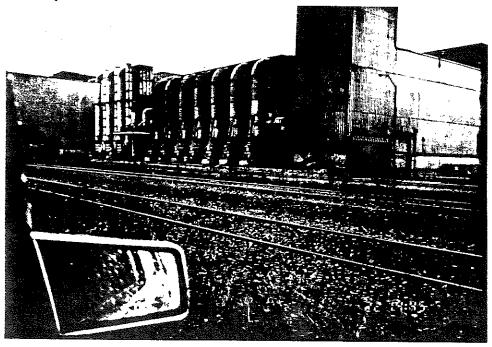
Photograph No. 5 Orientation: South

Location: SWMU 5

Date: 1/22/92

Description: Hazardous Waste Drum Storage Area showing three-sided enclosure with fenced-in

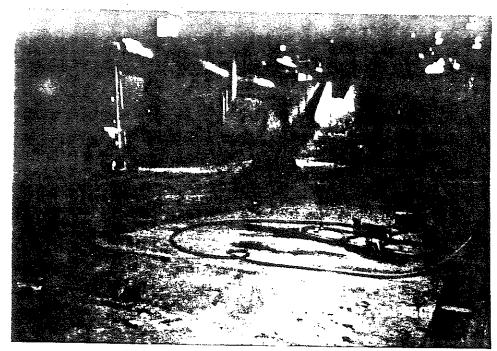
front and concrete pad with curbs.



Photograph No. 6 Orientation: Northwest

Location: SWMU 6 Date: 1/22/92

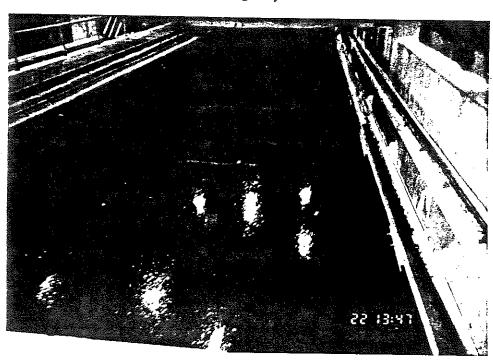
Description: Facility Baghouse Dust Collectors on south wall of Building B.



Photograph No. 7 Orientation: Southeast

Description: Wastewater Treatment System, sludge bay area.

Location: SWMU 7 Date: 1/22/92

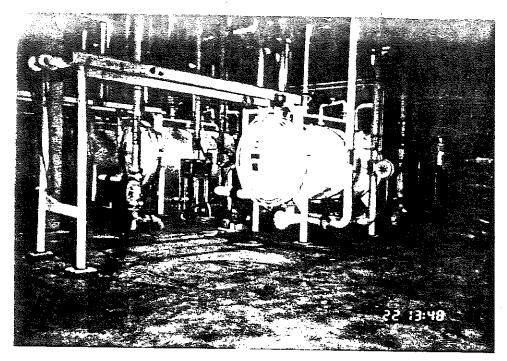


Photograph No. 8 Orientation: Southeast

Description: Wastewater Treatment System, sand filter area.

Location: SWMU 7

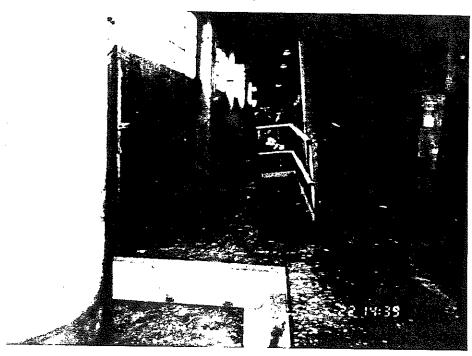
Date: 1/22/92



Photograph No. 9 Orientation: Northwest

Description: Wastewater Treatment System, carbon filter area.

Location: SWMU 7 Date: 1/22/92



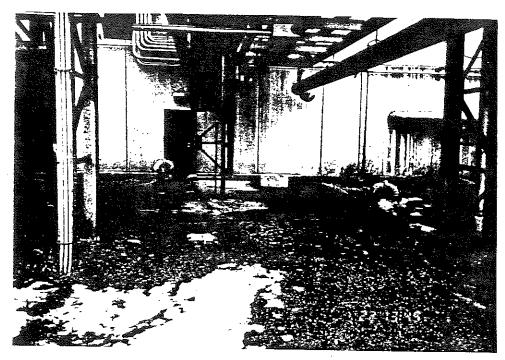
Photograph No. 10 Orientation: North

Location: SWMU 8

Date: 1/22/92

Description: Former Hazardous Waste Drum Storage Marshalling Area along side the northern wall

in Building B.



Photograph No.11 Orientation: East Description: Location of Sulfuric Acid Leak.

Location: AOC 2 Date: 1/22/92

ATTACHMENT C
VISUAL SITE INSPECTION FIELD NOTES

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b) Cylinder head
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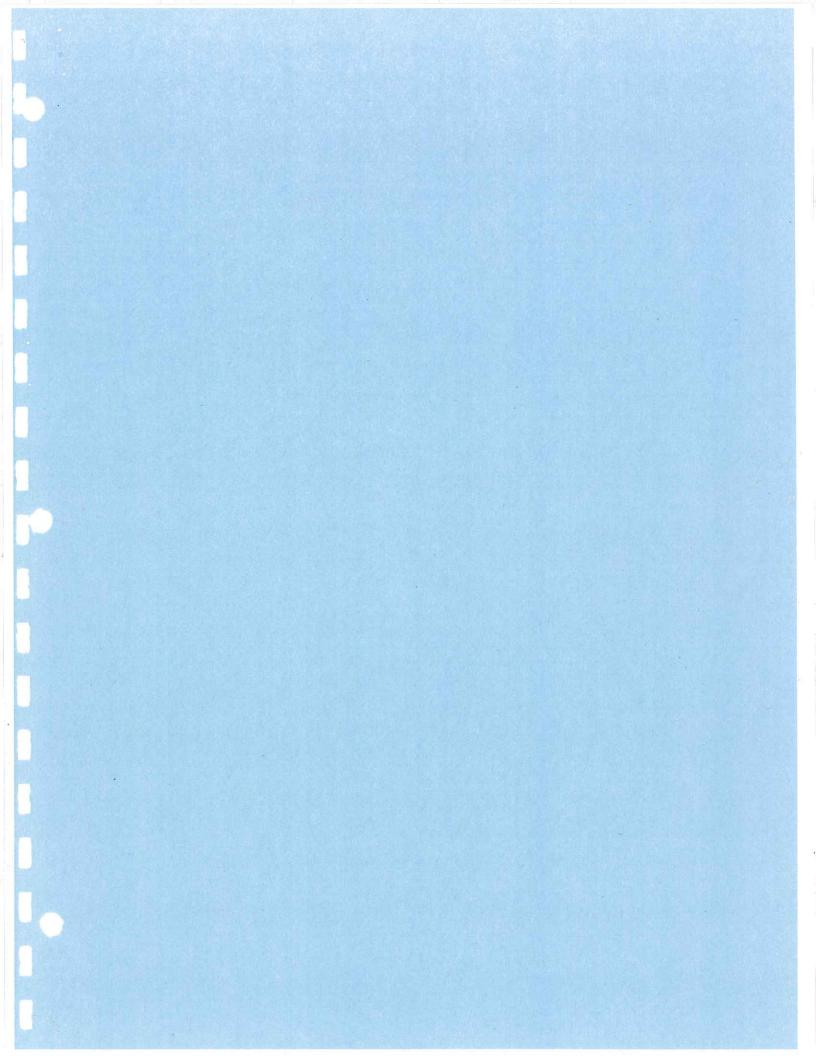
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CATERPILLAR®

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Caterpillar Inc.

Mapleton, Illinois 61547

February 15, 1993

Mr. Kevin M. Pierard, Chief Minnesota/Ohio Technical Enforcement Section RCRA Enforcement Section USEPA - Region 5 HRE-8J 77 W. Jackson Blvd. Chicago, IL 60604-3590

Dear Mr. Pierard:

RE: Visual Site Inspection Report

Caterpillar Inc.

Mapleton IL

ILD052664364

On February 12, 1993, I spoke with Ms. Francene Harris, when I was not able to reach you by telephone. She suggested that we submit a margin-noted copy of the above referenced report for your review. This is enclosed.

I will call you on Thursday, February 18th, 1993, to discuss this matter.

Very truly yours,

W. E. Schulze

Utilities Engineering Supt.

309-633-8784

1st

Enclosure

PRC Environmental Management, Inc. 233 North Michigan Avenue Suite 1621 Chicago, IL 60601 312-856-8700 Fax 312-938-0118



PRELIMINARY ASSESSMENT/ VISUAL SITE INSPECTION

CATERPILLAR, INC. MAPLETON, ILLINOIS ILD 052 664 364

FINAL REPORT

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Waste Programs Enforcement Washington, DC 20460

Work Assignment No. : C05087

EPA Region : 5

 Site No.
 :
 ILD 052 664 364

 Date Prepared
 :
 January 12, 1993

 Contract No.
 :
 68-W9-0006

PRC No. : 009-C05087-IL2N

Prepared by : Resource Applications, Inc.

(Arthur Marshalla) (Scott R. Tajak)

Contractor Project Manager : Shin Ahn

Telephone No. : (312) 856-8700 EPA Work Assignment Manager : Kevin Pierard

Telephone No. : (312) 886-4448

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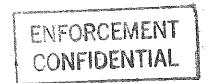
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2	FACILITY LAYOUT	6
3	ENLARGED FACILITY LAYOUT/SWMU AND AOC LOCATIONS	7

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EXECUTIVE SUMMARY



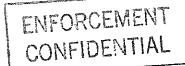
Resource Applications, Inc. (RAI) performed a preliminary assessment and visual site inspection (PA/VSI) to identify and assess the existence and likelihood of releases from solid waste management units (SWMU) and other areas of concern (AOC) at the Caterpillar, Inc. (Caterpillar) facility in Mapleton, Illinois. This summary highlights the results of the PA/VSI and the potential for releases of hazardous wastes or hazardous constituents from SWMUs and AOCs identified. In addition, a completed U.S. Environmental Protection Agency (EPA) Preliminary Assessment Form (EPA Form 2070-12) is included in Attachment A to assist in prioritization of RCRA facilities for corrective action.

The Caterpillar (formerly known as Caterpillar Tractor Company) facility is a grey iron foundry used for the manufacturing of engine and heavy equipment castings. The facility's Standard Industrial Code is 3321. The facility generates and manages the following waste streams: waste refractory coating (D001, F002, U226), waste resins (D001, D002, F002, U122), waste core catalyst (D001), waste janitorial products (D001, D002), off-specification wastewater treatment plant chemicals (D001, D002), nonhazardous dewatered sludge, spent solvent (F002), waste off-specification chemical (U226), waste triethylamine scrubber liquor (D001), waste oil/grease (D008), nonhazardous waste oil/grease, waste sand, dust waste, polychlorinated biphenyls (PCBs), and nonhazardous phenolic wastewater. The facility has operated at its current location since 1967. The facility occupies 608 acres in an industrial area and employs about 800 people. The facility's regulatory status is that of a large-quantity generator and storage facility. Building B was started in 1967 and was occupied until 1986. Building D was started in 1978 and is presently in full operation. Before 1967 the area was unimproved open land.

The PA/VSI identified the following ten SWMUs and four AOCs at the facility:

Solid Waste Management Units

- 1. Waste Sand Landfill Area
- 2. Former Hazardous Waste Drum Storage Area
- 3. Indoor Hazardous Waste Drum Storage Area
- 4. Waste Oil Sump Area
- 5. Hazardous Waste Drum Storage Area



- 6. Facility Baghouse Dust Collectors
- 7. Wastewater Treatment System
- 8. Former Hazardous Waste Drum Storage Marshalling Area
- 9. Waste Scrubber Liquor Discharge Tank Area
- 10. Phenolic Wastewater Storage Tank

Areas of Concern

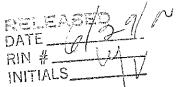
- 1. Underground Storage Tank Split-Pipeline Leak Area
- 2. Sulfuric Acid Leak Area
- 3. Abandoned Underground Storage Tank Leak Area
- 4. Diesel Fuel Truck Saddle Tank Spill Area

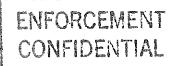
Past history of the SWMUs has revealed documented releases to the soil. The fact that Caterpillar's personnel are more aware of the regulations than they were 10 years ago is one reason why future spills or releases are unlikely. A PCB spill occurred in 1984, during a fire in Building B. The fire was put out with water which was pumped out of the building and onto the soil, thus contaminating the soil with PCBs. After cleanup, Caterpillar received a letter from IEPA approving the method of cleanup.

The potential for release to ground water from all SWMUs, except SWMU 1, is low. SWMU 1 has a moderate to high potential for release to ground water since hazardous constituent content in the waste disposed in this unit is unknown. AOC 3 has a moderate to high potential for release to ground water due to the gasoline release to the soil in the area. AOC 1 has a moderate potential for release to ground water. A gasoline release to soil occurred here; however, this release occurred in 1982. AOC 4 has a moderate potential for release to ground water due to the diesel fuel release to soil in this area. AOC 2 has a low potential for release to ground water.

The potential for release to surface water from all SWMUs, except SWMU 1, is low. There is also a low potential for release to surface water at all AOCs. SWMU 1 has a moderate to high potential for release to surface water since hazardous constituent content in the waste disposed in this unit is unknown.

The potential for release to on-site soils from all SWMUs, except SWMU 1, is low. However, overflow releases have occurred at SWMU 10. The unit has since been removed and no longer poses a threat to on-site soils. SWMU 1 has a moderate to high potential for release to on-site





soils since hazardous constituent content in the waste disposed in this unit is unknown. Releases of gasoline have occurred at AOC 1 and 3. No soil remediation has been conducted at either AOC. A release of sulfuric acid to on-site soil occurred at AOC 2. Thirty 55-gallon drums of contaminated soil were removed; however, no soil sampling was performed to verify that all contamination was removed. A release of diesel fuel to on-site soils occurred at AOC 4. Some soil was removed, but no documented soil sampling was available to RAI.

The potential for release to air from all SWMUs, except SWMU 1, and all AOCs is low. SWMU 1 has a moderate to high potential for release to air since hazardous constituent content in the waste disposed in this unit is unknown.

Caterpillar is located in an industrial area. A small residential area is located approximately 0.5 mile away. Water in the area is obtained from the Illinois River, located on the south property line of the facility. Other surface water bodies in the area include: 1) the Little Lamarsh Creek, which runs through the center of the Caterpillar property between Buildings B and D and drains into the Illinois River, and 2) the Pond of Lily Lake located approximately 1 mile southwest of Caterpillar's Building D and on the north side of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands and was altered for the current land use. There are no ground water wells on site. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile from Caterpillar. Facility access is controlled by fencing, security guards, and video-monitoring.

RAI recommends that RCRA closure be completed for SWMUs 2, 3, 5, and 8 per approved IEPA closure plans. Soil sampling should be conducted at SWMU 10 to determine if contamination occurred as a result of overflows at the unit. Integrity tests of the tanks at AOCs 1 and 3 should be performed, and the soil around all AOCs should be sampled for contamination. RAI recommends soil sampling at SWMU 1 to determine if hazardous constituent contamination does exist. If so, ground water sampling is recommended. Furthermore, RAI recommends hazardous constituent analysis of the nonhazardous special wastes stored at SWMU 1. RAI also recommends that a hazardous constituent waste analysis be performed on the waste dust stored in SWMU 6. If the waste is determined to be hazardous, sampling may be necessary for all environmental media. RAI recommends no further action for any of the other identified SWMUs.

1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC) received Work Assignment No. C05087 from the U.S. Environmental Protection Agency (EPA) under Contract No. 68-W9-0006 (TES 9) to conduct preliminary assessments (PA) and visual site inspections (VSI) of hazardous waste treatment and storage facilities in Region 5. Resource Applications, Inc. (RAI), TES 9 team member, provided the necessary assistance to complete the PA/VSI activities for the Caterpillar, Inc. (Caterpillar) facility in Mapleton, Illinois.

As part of the EPA Region 5 Environmental Priorities Initiative, the RCRA and CERCLA programs are working together to identify and address RCRA facilities that have a high priority for corrective action using applicable RCRA and CERCLA authorities. The PA/VSI is the first step in the process of prioritizing facilities for corrective action. Through the PA/VSI process, enough information is obtained to characterize a facility's actual or potential releases to the environment from solid waste management units (SWMU) and areas of concern (AOC).

A SWMU is defined as any discernible unit at a RCRA facility in which solid wastes have been placed and from which hazardous constituents might migrate, regardless of whether the unit was intended to manage solid or hazardous waste.

The SWMU definition includes the following:

- RCRA-regulated units, such as container storage areas, tanks, surface impoundments, waste piles, land treatment units, landfills, incinerators, and underground injection wells
- Closed and abandoned units
- Recycling units, wastewater treatment units, and other units that EPA has generally exempted from standards applicable to hazardous waste management units
- Areas contaminated by routine and systematic releases of wastes or hazardous constituents. Such areas might include a wood preservative drippage area, a loading-unloading area, or an area where solvent used to wash large parts has continually dripped onto soils.

An AOC is defined as any area where a release to the environment of hazardous waste or constituents has occurred or is suspected to have occurred on a nonroutine and nonsystematic basis. This includes any area where such a release in the future is judged to be a strong possibility.

The purpose of the PA is as follows:

- Identify SWMUs and AOCs at the facility.
- Obtain information on the operational history of the facility.
- Obtain information on releases from any units at the facility.
- Identify data gaps and other informational needs to be filled during the VSI.

The PA generally includes review of all relevant documents and files located at state offices and at the EPA Region 5 office in Chicago.

The purpose of the VSI is as follows:

- Identify SWMUs and AOCs not discovered during the PA.
- Identify releases not discovered during the PA.
- Provide a specific description of the environmental setting.
- Provide information on release pathways and the potential for releases to each medium.
- Confirm information obtained during the PA regarding operations, SWMUs, AOCs, and releases.

The VSI includes interviewing appropriate facility staff, inspecting the entire facility to identify all SWMUs and AOCs, photographing all SWMUs, identifying evidence of releases, initially identifying potential sampling locations, and obtaining all information necessary to complete the PA/VSI report.

This report documents the results of a PA/VSI of the Caterpillar facility in Mapleton, Illinois. The PA was completed on January 21, 1992. RAI gathered and reviewed information from the

Illinois Environmental Protection Agency (IEPA) and from EPA Region 5 RCRA files. RAI also reviewed relevant publications from the U.S. Department of Agriculture (USDA), Soil Conservation Service (SCS), U.S. Department of Commerce (USDC), U.S. Geological Survey (USGS), Federal Emergency Management Agency (FEMA), and the Illinois State Geological Survey (ISGS). The VSI was conducted on January 22, 1992. It included interviews with facility representatives and a walk-through inspection of the facility. Ten SWMUs and four AOCs were identified at the facility.

RAI completed EPA Form 2070-12 using information gathered during the PA/VSI. This form is included in Attachment A. The VSI is summarized and 11 inspection photographs are included in Attachment B. Field notes from the VSI are included in Attachment C.

2.0 FACILITY DESCRIPTION

This section describes the facility's location, past and present operations (including waste management practices), waste generating processes, history of documented releases, regulatory history, environmental setting, and receptors.

2.1 FACILITY LOCATION

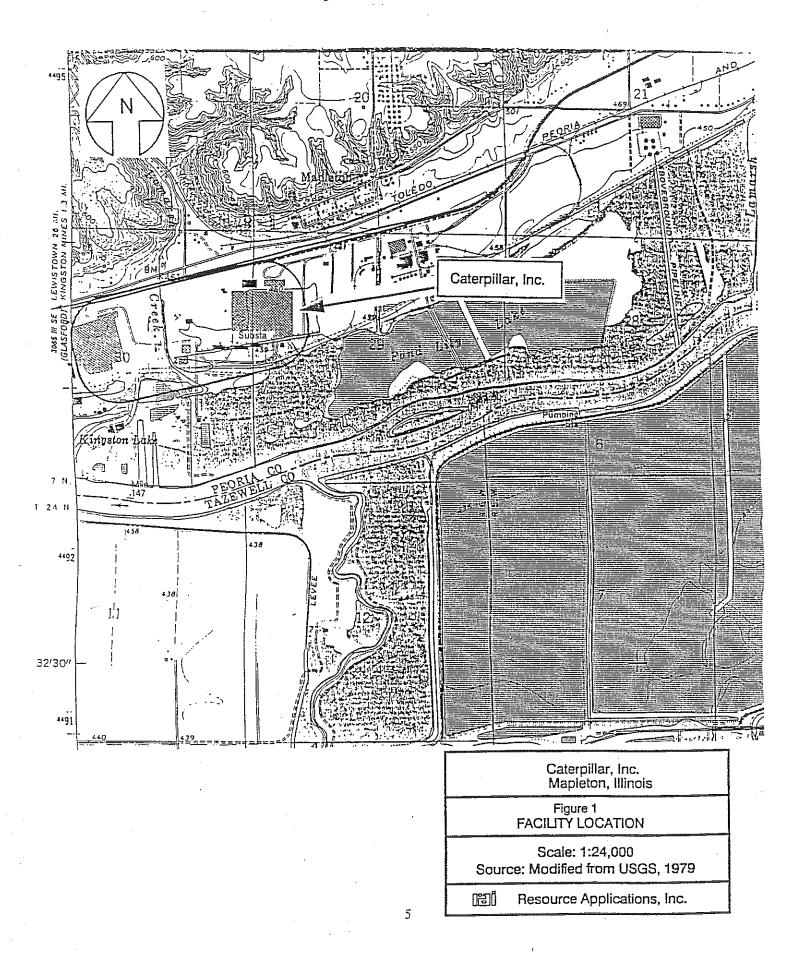
The Caterpillar facility is located at 8826 W. Route 24 in Mapleton, Peoria County, Illinois (latitude 40°33'035" N and longitude 89°44'008" W), as shown in Figure 1. The facility occupies 608 acres in an industrial area.

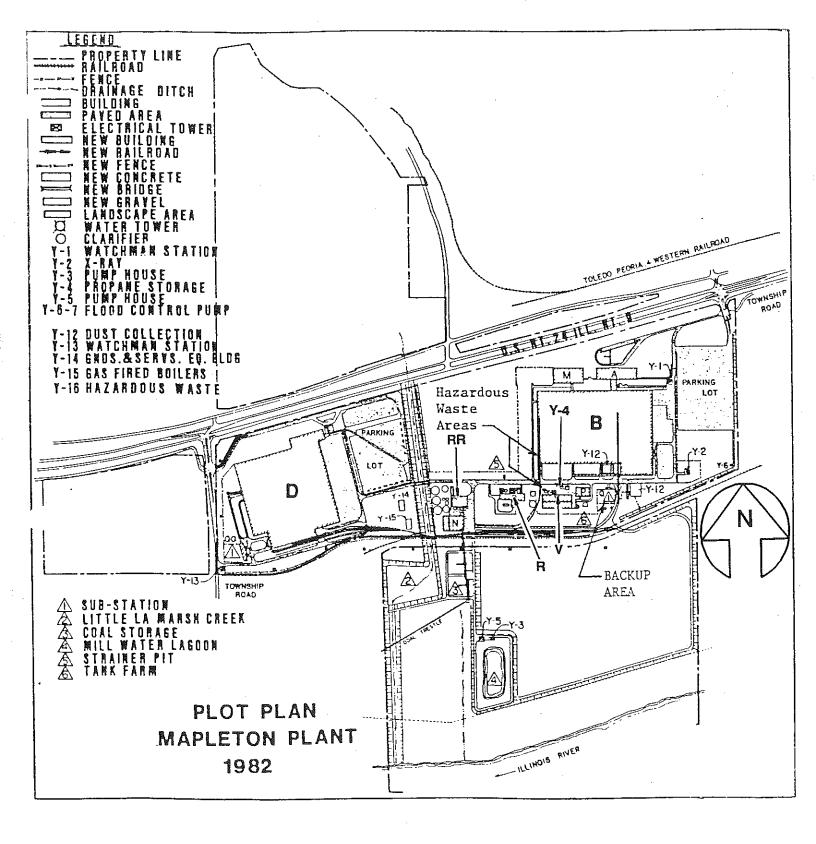
The Caterpillar facility is bordered on the north by U.S. Route 24/Illinois Route 9 and the Village of Mapleton, on the east by two chemical plants, on the south by the Illinois River, a barge terminal, and a warehouse, and on the west by open land and farmland.

2.2 FACILITY OPERATIONS

According to the facility representative, Caterpillar started their operations in Building B in 1967 and operated until 1986. A new building, Building D, started operations in 1978 and is currently in operation. In 1986, the company incorporated in Delaware as Caterpillar, Inc. and the name was changed to reflect the new status. The facility regulatory status is that of a large-quantity generator and storage facility. Before 1967 the area was unimproved open land.

Caterpillar ceased operations in Building B in 1986. When operating, this facility was a grey iron foundry used for the manufacture of engine and heavy equipment castings. Its Standard Industrial Code was 3321. A facility layout of Caterpillar is included as Figure 2. Figure 3 is an enlargement of Figure 2 and includes locations of SWMUs and AOCs. Table 1 presents the SWMUs identified at the facility.





Caterpillar, Inc. Mapleton, Illinois

FACILITY LAYOUT

Scale: 1" = 1000' Source: Caterpillar, 1982

Resource Applications, Inc.

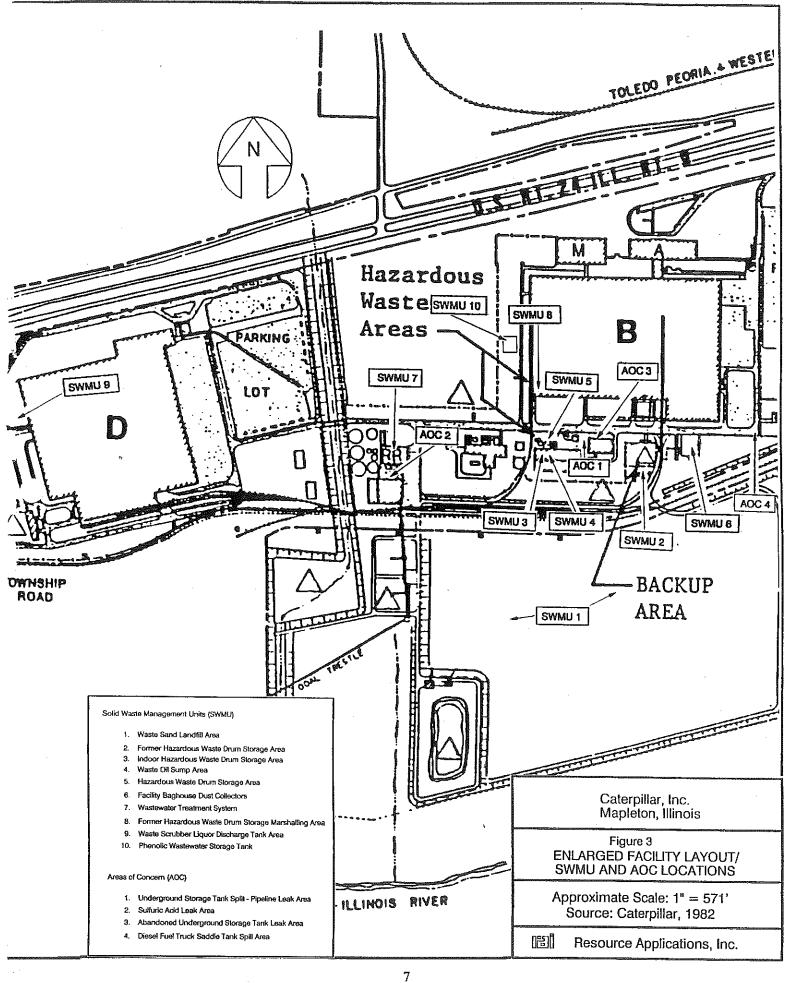


TABLE 1
SOLID WASTE MANAGEMENT UNITS

SWMU Number	SWMU Name	RCRA Hazardous Waste Management Unit ^a	Status
1	Waste Sand Landfill Area	No	Active, estimated year for final closure is 1995.
2	Former Hazardous Waste Drum Storage Area	Yes	Inactive, stored greater than 90 days, anticipated RCRA closure by 11/8/92.
3	Indoor Hazardous Waste Drum Storage Area	Yes	Active, greater than 90-day storage, anticipated RCRA closure by 11/8/92.
4	Waste Oil Sump Area	No	Active, less than 90-day storage.
5	Hazardous Waste Drum Storage Area	Yes	Active, greater than 90-day storage, anticipated RCRA closure by 11/8/92.
6	Facility Baghouse Dust Collectors	No	Active, less than 90-day storage.
7 .	Wastewater Treatment System	No	Active, less than 90-day storage.

Note:

^a A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application.

TABLE 1 (continued)

SOLID WASTE MANAGEMENT UNITS

SWMU Number	SWMU Name	RCRA Hazardous Waste Management Unit ^a	Status
8	Former Hazardous Waste Drum Storage Marshalling Area	Yes	Inactive, stored greater than 90 days, anticipated RCRA closure by 11/8/92.
9	Waste Scrubber Liquor Discharge Tank Area	No	Active, less than 90-day storage.
10	Phenolic Wastewater Storage Tank	No	Inactive, stored nonhazardous phenolic wastewater prior to on-site treatment.

Note:

A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application.

The facility has operated at its current location since 1967 and employs about 800 people. The facility consists of many buildings, which are described as follows: Office (A) (61,640 square feet), Foundry (D) (1,519,660 square feet), Electric Switch House (Q) (3510 square feet), Electric Switch House (QQ) (11,450 square feet), Air Compressor/Waste Treatment (R) (40,815 square feet), Waste Treatment (RR) (47,700 square feet), Storage and Receiving (V) (52,700 square feet, Watch Shelter (Y-1) (3,070 square feet), X-Ray (Y-2) (1,700 square feet), Pump House (Mill Water) (Y-3) (1,710 square feet), Compressed Gas Storage (Y-4) (1,200 square feet), Pump House (Mill Water) (Y-5) (4,200 square feet), Pump House (Flood Control) (Y-6) (312 square feet), Pump House (Flood Control) (Y-7) (465 square feet), Guard House (Y-13) (660 square feet), Yard Equipment Storage (Y-14) (6,250 square feet), Temporary Boiler Plant (Y-15) (6,000 square feet) and Hazardous Waste Drum Storage Building (Y-16) (450 square feet).

There are ten SWMUs of which three are presently inactive (SWMUs 2, 8, and 10). The Waste Sand Landfill Area (SWMU 1) is permitted by the State of Illinois as a Solid Waste Disposal Site and is used only for nonhazardous waste sand from the molding operations. Discharge from the Wastewater Treatment System (SWMU 7) is regulated under a National Pollutant Discharge Elimination System (NPDES) permit. This system was started in the mid-1970s and is still in operation. The actual foundry process consists of four steps, which are: (1) manufacturing, or the making of cores, which represent the finished product; (2) molding, which consists of setting the core in a core box and forming sand around the core, after which the core is removed, thus leaving a void which now represents the shape of the finished product; (3) pouring molten steel into the void, thus forming the actual product; and (4) finishing, which removes bumps and rough edges.

2.3 WASTE GENERATING PROCESSES

The primary waste streams generated at the Caterpillar facility are waste refractory coating (D001, F002, U226), waste resins (D001, D002, F002, U122), waste core catalyst (D001), waste janitorial products (D001, D002), off-specification wastewater treatment plant chemicals (D001, D002), spent solvent (F002), waste off-specification chemical (U226), waste triethylamine scrubber liquor (D002), waste oil/grease (D008), nonhazardous waste oil/grease, waste sand, dust waste, polychlorinated biphenyls (PCBs), and nonhazardous phenolic wastewater. These wastes are

TABLE 2
SOLID WASTES

Waste/EPA Waste Code ^a	Source	Solid Waste Management Unit
Waste Refractory Coating/D001, F002, U226	Air dry core, dip and mold spray	2, 3, 5, 8
Waste Resins/D001, D002, F002, U122	Core Room	2, 3, 5, 8
Waste Core Catalyst/D001	Core Room	2, 3, 5, 8
Waste Janitorial Products/D001, D002	Facility Cleaning and Maintenance Procedures	2, 3, 5, 8
Off-Specification Wastewater Treatment Plant Chemicals/D001, D002	Wastewater Treatment Plant	7
Dewatered Sludge/NA	Wastewater Treatment Plant	7
Spent Solvent/F002	General Cleaning Solvent	2, 3, 5, 8
Waste Off-Specification Chemical/U226	Foundry Process	2, 3, 5, 8
Waste Triethylamine Scrubber Liquor/D002	Core Room	9
Waste Oil/Grease/D008	Sump Area	3, 4
Waste Oil/Grease/NA	Sump Area	4, 5

Notes:

^a Not applicable (NA) designates nonhazardous waste.

Caterpillar claims that this waste is nonhazardous (Caterpillar 1992b). IEPA regulates it as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided. Hence, no waste designation has been provided.

TABLE 2 (continued)

SOLID WASTES

Waste/EPA Waste Code ^a	Source	Solid Waste Management Unit
Waste Sand ^b	Core and Mold Room	1
Dust Waste ^b	Foundry Process	1, 6
PCBs	Capacitors & Transformers	3, 5
Phenolic Wastewater/NA	Core manufacturing cleaning	10

Notes:

^a Not applicable (NA) designates nonhazardous waste.

Caterpillar claims that this waste is nonhazardous (Caterpillar 1992b). IEPA regulates it as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided. Hence, no waste designation has been provided.

generated during the manufacture of engines and heavy equipment castings. Wastes generated at the facility are discussed below and are summarized in Table 2. The discussion, including waste generation rates, will be based on the results of an IEPA inspection report dated December 9 and 16, 1988. Wastes have been stored in the Former Hazardous Waste Drum Storage Area (SWMU 2), Indoor Hazardous Waste Drum Storage Area (SWMU 3), Hazardous Waste Drum Storage Area (SWMU 5), and Former Hazardous Waste Drum Storage Marshalling Area (SWMU 8), as listed in Table 2, but records are not available to indicate which specific wastes were stored in which specific units (Caterpillar, 1992a). SWMUs 2, 3, 5, and 8 became active in 1967, and SWMUs 2 and 8 are presently inactive. The dates SWMUs 2 and 8 became inactive are unknown.

Caterpillar's core manufacturing operation generates several types of waste refractory coatings (D001, F002, U226). The refractory coating is used to prevent molten iron from sticking to the sand during core manufacture. The core is dipped into a tank in order to apply the refractory coating. The waste is generated during periodic cleaning of the tank. The process generates a solvent-based coating, 1,1,1-trichloroethane (F002, U226) mixed with clay, and an alcohol-base coating (D001), such as Betacur (D001), FR4 Release (F002), and Silicon Release (F002) (IEPA, 1990a). The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of five drums per month (Caterpillar, 1992b). The waste is transported off site by Chemical Waste Management (CWM) to Trade Waste Incineration (TWI) in Sauget, Illinois. This waste is treated by incineration. Some of it is delivered to the CWM, Emelle Facility (CWM, EM) in Emelle, Alabama for fuel blending, stabilization, and landfill (Caterpillar, 1992b).

Caterpillar's core manufacturing operation also generates several types of waste resin (D001, D002, F002, U122). The resins are used during core manufacturing for binding sand. The facility uses the following types of resins: metal cleaners (F002), defoamer (D001), triethylamine scrubber liquor (D002), and formaldehyde (U122) (IEPA, 1990a). The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of five drums per month (Caterpillar, 1992b). The waste is transported off site by CWM to CWM, EM for fuel blending, stabilization, and landfill (Caterpillar, 1992b).

Caterpillar's core manufacturing operation generates several types of waste core catalysts (D001). The core catalysts are used to increase the rate of chemical reaction during core

manufacturing (IEPA, 1990a). The facility uses the following types of core catalysts: Pepset catalyst (D001) and Furan catalyst (D001). The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of two drums per month (Caterpillar, 1992b). The waste is transported off site by CWM to CWM, EM for fuel blending, stabilization, and landfill (Caterpillar, 1992b).

Caterpillar generates waste janitorial products (D001, D002) from facility cleaning and maintenance operations. The facility uses the following types of janitorial products: Johnson Step-Off (D002), floor stripper (D002), triethylamine (D001), Stenisol (D001), lacquer thinner (D001), maintenance paint (D001), Floor Black Seal (D001), and Johnson Forward (D002). The waste was stored in SWMUs 2, 3, 5, and 8. The facility generates an average of one drum per year (Caterpillar, 1992b). The waste is transported off site by CWM to CWM, EM for fuel blending, stabilization, and landfill (Caterpillar, 1992b).

Caterpillar generates off-specification wastewater treatment chemicals (D001/D002). The facility uses wastewater treatment chemicals in their Wastewater Treatment System (SWMU 7). The following chemicals have become outdated and off-specification in the past: Betz Slimicide J-12 (D001), Betz Slimicide C-30 (D001), Betz 492 (D002), and Betz 562C (D002). The facility generates an average of 19 drums per year. The waste was transported by CWM to CWM, EM for stabilization and landfill (Caterpillar, 1992b).

Caterpillar's Wastewater Treatment System (SWMU 7) generates dewatered sludge (nonhazardous) as a residue. The sludge is collected from the acid-alkali-oil (AAO) treatment systems and the dust collector wastewater (DCWW) systems. Dewatered sludge is estimated to be 40 percent solid and is transferred from the drying units to a truck loadout area with belt conveyors, all of which are a part of SWMU 7. It is estimated that 80 to 100 cubic yards per day of dry sludge is disposed of at the Peoria City/County Landfill (IEPA, 1990b).

Caterpillar utilizes 1,1,1-trichloroethane as a solvent for general cleaning operations, or as an off-specification chemical in the foundry process (IEPA, 1990a). The spent solvent (F002) and the waste off-specification chemical (U226) were stored in SWMUs 2, 3, 5, and 8. Combined, the facility generates an average of eight drums per year of these wastes. Most of these drums are transported off site by CWM to TWI in Sauget, Illinois for incineration, and the remainder are

transported to CWM, EM for solvent recovery (Caterpillar, 1992b). Information regarding specific amounts and disposition per waste type (i.e. spent solvent (F002) and waste off-specification chemical (U226)) was not available to RAI.

Caterpillar generates waste triethylamine scrubber liquor (D002) as a result of an air scrubber operation in the core room. This waste is accumulated in the Waste Scrubber Liquor Discharge Tank Area (SWMU 9), which discharges it into aboveground storage tanks. This waste is generated at a rate of approximately 7,000 gallons per month. The waste is emptied from the scrubber to the storage tanks by gravity feed and then to the highway tanker truck by hauling it in a small, in-house (approximately 400-gallon) tanker. The wastes are transported off site by the Peoria Disposal Company, Peoria, Illinois to Clean Harbors of Chicago, Illinois for aqueous organic treatment (Caterpillar, 1992b).

Caterpillar generates hazardous waste oil/grease (D008) and nonhazardous waste oil/grease as a result of maintenance operations of vehicles and machinery. This operation involves the Waste Oil Sump Area (SWMU 4), which pumps the waste to 55-gallon drums. The facility generates approximately 30 55-gallon drums per month, of which about 75 percent are nonhazardous waste oil/grease. The waste is stored in SWMU 3 or 5. The hazardous waste oil/grease (D008) from SWMU 3 is transported by CWM and taken to CWM, EM for stabilization and landfill. The nonhazardous waste oil/grease from SWMU 5 is transported by Safety-Kleen Corporation to Breslube USA, Inc., East Chicago, Indiana for reclamation (Caterpillar, 1992b).

Caterpillar generates waste sand from core making and the molding process. This waste is disposed of on site in Caterpillar's privately owned Waste Sand Landfill Area (SWMU 1). Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the waste sand as a nonhazardous special waste (IEPA 1988a, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. Hence, no waste designation has been provided. The Waste Sand Landfill Area (SWMU 1) has no monitoring wells (IEPA, 1990a). The landfill covers an area of 82 acres and is located south of Building B and north of the Illinois River. The facility's estimate of the annual volume of waste received is 61,000 cubic yards (IEPA, 1991). The total capacity of the landfill is greater than 2 million cubic yards. It is estimated that the landfill will remain in operation until 1995. The waste is transported by Caterpillar's own trucks, scrapers and other hauling

equipment. The waste sand is moved into place and compacted using common earthworking machinery.

Caterpillar generates dust waste which is captured in the Facility Baghouse Dust Collectors (SWMU 6). This is an air pollution control device, used for controlling solid particulate emissions to the atmosphere by utilizing an induced draft fan and collecting the dust in a series of special-type cloth bags. The dust particulates are automatically removed from the bags and gravity fed onto a conveyor. The conveyor then transports the waste dust to a storage hopper where it is mixed with sand and water. The waste is generated at the rate of approximately 10 cubic yards per month. The waste is then taken to the Waste Sand Landfill Area (SWMU 1). Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the dust waste as a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. Hence, no waste designation has been provided. The Waste Sand Landfill Area has no monitoring wells (IEPA, 1990a).

Caterpillar generates significant amounts of PCBs periodically when old equipment containing PCB capacitors and transformers breaks down or becomes unserviceable. Caterpillar is no longer purchasing new components which utilize PCBs. The drummed wastes which may be contaminated with PCBs were first stored in SWMU 3 or 5, and then shipped for incineration to various incinerators (IEPA, 1986).

Between the mid-1970s and the early 1980s, Caterpillar generated a nonhazardous phenolic wastewater. This wastewater was generated from the core manufacturing process in Building B. Water was used to clean the core manufacturing machines and the resultant wastewater contained low levels of phenols from core resins used during the production (Caterpillar, 1992e). According to Illinois Disposal Permit No. 781475, this wastewater was nonhazardous (Caterpillar, 1992d). The wastewater was directed to the Phenolic Wastewater Storage Tank (SWMU 10) via a piping system. The phenolic wastewater was then discharged to the facility's on-site sanitary waste treatment plant for biological treatment along with the facility's sanitary waste (Caterpillar, 1992e). According to a facility representative, an off-site disposal permit was maintained by Caterpillar in the event that the storage/treatment capacity became insufficient. It is not known if Caterpillar ever utilized this disposal permit.

2.4 HISTORY OF DOCUMENTED RELEASES

Between the mid-1970s and early 1980s, Caterpillar generated a nonhazardous phenolic wastewater from the cleaning of the core manufacturing machines (Caterpillar, 1992e). This wastewater was stored in the Phenolic Wastewater Storage Tank (SWMU 10) prior to on-site biological treatment. According to a facility representative, overflows occurred at this tank resulting in the phenolic wastewater being released to uncovered soil beneath and around SWMU 10. The facility was unable to provide any information regarding dates, amounts, or remedial activities associated with these releases.

On March 22, 1982, there was a small gasoline leak from a damaged discharge line on a small tank located on a Building D slab. The leak was reported to National Response Center (NRC) the same day. There was no release to any environmental media (Caterpillar, 1992a).

On June 23, 1982, there was a mercury (D009) spill inside Building B (molding) which occurred from a broken counterweight. The spill was reported to NRC on June 23, 1982. The spill occurred in a mold line shakeout area. This particular shakeout area used counterweights filled with mercury, which were used to produce a vibratory action needed to shake sand off castings. The counterweight was damaged and released approximately 12 pounds of mercury. The mercury spill was on a concrete floor and was cleaned up so that there was no release to the environment. The concrete floor is 10 inches thick. The mercury was given to a Caterpillar laboratory for their use. There is no documentation of cleanup approval from IEPA (Caterpillar, 1992a).

On December 1, 1982, there was a gasoline pipeline leak, the Underground Storage Tank (UST) Split-Pipeline Leak Area (AOC 1). There was a split in a pipe that fed gasoline from an UST into pumps for vehicles. This area is located immediately south of Building B. The line was shut off. The leak was reported to NRC on December 1, 1982. According to a facility representative, sampling and any necessary removal and proper disposal of soil are scheduled for the near future (Caterpillar, 1992a).

On February 4, 1983, there was an indoor release of a caustic cleaning solution. A facility representative stated that the only record of this incident is a release report made by telephone to

NRC in 1983. The facility representative also commented that the release report does not list the location of the spill, although it indicates the material was collected for proper disposal (Caterpillar, 1992a). There was no documentation of release to the environment.

A fire in a capacitor vault, in Building B, on June 20, 1984 caused the release of PCB-contaminated water onto the ground outside the south end of the building and into a catch basin called Y-6 (see Figure 2). This spill involved approximately 100 gallons of PCB-contaminated water from a number of small capacitors, which resulted in an extensive cleanup which is now complete. IEPA submitted a letter to Caterpillar, approving the cleanup of the PCB spill (IEPA, 1985).

On November 7, 1990, there was a sulfuric acid leak from an acid feed line for the wastewater treatment plant, outside Building RR, referred to as the Sulfuric Acid Leak Area (AOC 2), which was reported to NRC on the same day. The leak had contaminated soil in the immediate area. The contaminated soil was removed by Caterpillar personnel and shipped out (Caterpillar, 1992a). There is no documentation of any soil sampling subsequent to remediation. No information was available on the transporter used or the ultimate disposition of the contaminated soil.

On December 19, 1991, a truck (not Caterpillar's) had an accident at the Caterpillar facility. As a result of the accident, a diesel fuel saddle tank was ripped away from the truck causing a spill in the Diesel Fuel Truck Tank Spill Area (AOC 4) which contaminated the soil in that area. The owner of the truck contracted a spill response company to clean up the area. Some contaminated soil was removed and disposed of by the spill response company. There is no documentation of sampling or where the contaminated soil was shipped (Caterpillar, 1992a).

In mid-January 1992, Caterpillar detected a release in the Abandoned Underground Storage Tank Leak Area (AOC 3). The incident was reported to the Illinois Emergency Services and Disaster Agency (IESDA). The tank contained gasoline, which was originally used for fuel in vehicles. The aboveground pump station which would have worked in conjunction with this tank has been removed. Based on tests which were taken at the site, some contamination was detected. There is no documentation as to the type of tests which were taken or when they were taken. It is also understood that Caterpillar intends to perform more testing and to remediate as required. It is not

known what type of testing will be performed. IESDA has notified IEPA about the release (Caterpillar, 1992c). No further information was given to RAI regarding this release.

2.5 REGULATORY HISTORY

According to an IEPA inspection report, Caterpillar submitted a Notification of Hazardous Waste Activity to EPA on August 18, 1980 (IEPA, 1988b). A copy of Caterpillar's notification could not be obtained by RAI. The facility submitted a RCRA Part A permit application on November 17, 1980 (Caterpillar, 1980). The application listed the following wastes: D001, D002, D006, D008, D013, D017, F001, U009, U121, U122, U133, U154, U188, U226, U228, and U242. The process design capacity is listed as a 33,000-gallon drum storage area (S01), 500-gallon storage tank (S02), 500 liters-per-day treatment (T04), and 20 gallons-per-day tank treatment (T01). The total estimated quantity of waste is 748,000 pounds per year. The above includes PCB waste which is shipped to various incineration facilities for disposal. According to a facility representative, the S02 designation referred to the Phenolic Wastewater Storage Tank (SWMU 10) and although the capacity for SWMU 10 could not be determined, it was greater than 500 gallons. On January 31, 1984, Caterpillar submitted a revision to the Part A permit application to change its waste codes (Caterpillar, 1984a). The application listed the following wastes: D002 and D008. The process design capacity is listed as a 6,380-gallon storage tank (S02). The estimated quantity of waste for both D002 and D008 is 4,600 pounds per year. On December 21, 1984, Caterpillar submitted a revision to the Part A permit application to change its waste codes (Caterpillar, 1984b). This letter stated that the Caterpillar, Mapleton plant did not have any hazardous waste storage tanks in use. They had filed incorrectly. The application listed the following wastes: D001, D002, D008, and U226. The process design capacity is listed as a 33,000-gallon drum storage area (S01). The total estimated quantity of waste is 286,000 pounds per year. On May 5, 1989, Caterpillar submitted a revision to the Part A permit application to change its waste codes (Caterpillar, 1989). The application listed the following wastes: D001, D002, D003, F002, U122, and U226. The process design capacity is listed as a 55,000-gallon drum storage area (S01). The total estimated quantity of waste is 28,000 pounds per year.

Caterpillar is currently in the process of closing the following SWMUs: Former Hazardous Waste Drum Storage Area (SWMU 2), Indoor Hazardous Waste Drum Storage Area (SWMU 3),

Hazardous Waste Drum Storage Area (SWMU 5) and Former Hazardous Waste Drum Storage Marshalling Area (SWMU 8) (Caterpillar, 1987). These four SWMUs will go through RCRA closure in 1992 (Caterpillar, 1992a).

Caterpillar is classified as a large-quantity generator and storage facility (IEPA, 1988a). The Waste Sand Landfill Area (SWMU 1) is permitted by the State of Illinois as a solid waste disposal site for nonhazardous special waste (LPC No. 143 805 004) (IEPA, 1988a, 1991). Caterpillar claims that SWMU 1 manages nonhazardous waste (Caterpillar, 1992b). IEPA documents indicate that the waste in SWMU 1 consists of nonhazardous special waste sand and dust generated in the Caterpillar foundry (IEPA, 1988a, 1989). Since this unit manages nonhazardous special waste, IEPA documents also refer to this unit as a special waste landfill (IEPA, 1988a, 1989). Caterpillar was unable to provide RAI with a copy of the IEPA special waste permit required for disposal of the waste in SWMU 1.

The Wastewater Treatment System (SWMU 7) discharges treated wastewater from the foundry process and sanitary sources to the Illinois River from three outfalls. The discharges from SWMU 7, sanitary, and noncontact cooling water sources are regulated under NPDES Permit No. IL0001830, effective September 22, 1990 (IEPA, 1990b). Caterpillar releases noncontact cooling water to the Illinois River without treatment (Caterpillar, 1991). The primary parameters to be monitored and limited for the sanitary and process outfall are pH, BOD₅, total suspended solids, chromium (total), chromium (hexavalent), iron, zinc, phenol, oil and grease, fecal coliform, and chlorine residual. The primary parameters to be monitored for the noncontact cooling water outfall are temperature, pH, and oil and grease. The primary parameters to be monitored and limited for the dust collection scrubber wastewater outfall are pH, total suspended solids, oil and grease, copper, lead, zinc, and phenol. In addition, Caterpillar will continually evaluate the potential for discharge of other pollutants not specifically limited in the permit (Caterpillar, 1990).

A RCRA compliance inspection was conducted by IEPA in September 1987. Violations related to an inadequate contingency plan were noted (IEPA, 1987). Caterpillar responded to these violations; however, no further documentation was available (Caterpillar, 1987). Other RCRA inspections were conducted in December 1988, July 1989 and May 1990. Inspectors noted violations

related to hazardous waste storage tank violations (referring to SWMU 9) (IEPA, 1988b), violation of special waste handling (IEPA, 1989) and failure to file a closure plan (IEPA, 1990a). No further documentation regarding these violations was available to RAI.

The facility has operating air permits for the following areas: B-Core, B-Molding, B-Melting, B-Metallius, B-Finishing, B-Camshaft, G-Line, Boiler (coal), Boiler 2-3 (coal), Boiler 4-5 (coal), Boilers 1-2-3 (gas and oil), Boiler 5 (oil), Kewanee Boilers, D-Core, Mold Line 1 and 2, Mold Line 4, D-Melting, Phase II Melting, D-Finishing, 3500 Area, 3600 Area, D-Camshaft, Pattern Shop, Organic Liquid, Bulk Chemical, Investment Casting and Open Burning (Caterpillar, 1988). The facility has no history of odor complaints or documented air permit compliance problems.

2.6 ENVIRONMENTAL SETTING

This section describes the climate, flood plain and surface water, geology and soils, and ground water in the vicinity of the Caterpillar facility.

2.6.1 Climate

The climate in Peoria County is continental, with wide variations in temperature between summer and winter. The average daily temperature is 50.4°F. The lowest average daily temperature is 13.3°F in January. The highest average daily temperature is 85.5°F in July (NOAA, 1990).

The average annual precipitation for Peoria is 34.89 inches (NOAA, 1990). The mean annual lake evaporation for the area is about 32 inches (USDC, 1968). The 1-year, 24-hour maximum rainfall is 5.06 inches (NOAA, 1990). Average annual snowfall is 24.7 inches. Precipitation is somewhat evenly distributed throughout the year, with slightly more falling in spring and summer (NOAA, 1990).

The prevailing wind is from the south, except during the winter months, when winds from the west-northwest may be more frequent. Average annual wind speed is 10.0 miles per hour (mph). Average wind speed is highest in March, at 12.1 miles per hour. The average relative humidity is

about 71 percent. Humidity is higher at night, and the average at dawn is about 83 percent (NOAA, 1990).

2.6.2 Flood Plain and Surface Water

The portion of the Caterpillar facility property south of the main plant buildings lies within the 500-year flood plain but outside the 100-year flood plain. The remainder of the property is outside the 500-year flood plain (FEMA, 1983). The nearest surface water body is the Illinois River which is located next to the southern property line and is approximately 700 feet from the nearest Caterpillar building. The Illinois River is used for recreational, agricultural, industrial and municipal water supply purposes. This surface water body discharges to the Mississippi River.

Surface water drainage at the facility is to the south toward the Illinois River. Storm water discharges (drains) rapidly toward the Illinois River. Two major surface water bodies are in the area. The Little Lamarsh Creek runs north and south basically through the center of the Caterpillar property, between Buildings B and D and drains into the Illinois River. Little Lamarsh Creek is used for drainage purposes. The other main surface water body is the Pond of Lily Lake, located approximately 1 mile southwest of Caterpillar's Building D and is just north of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands before it was altered for the current land use (USDA, 1992). There are no ground water wells on site. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile south (downgradient) from Caterpillar.

2.6.3 Geology and Soils

The facility is underlain by Orthents-Urban Land according to the Peoria County Soil and Water Conservation District (PCSWCD). Accordingly, this unit is defined as disturbed and/or developed lands, consisting mainly of fill, and often where underlying or original soils can no longer be distinguished. The soil in the vicinity of the plant is sandy loam to a depth of 13 feet. Below this is a layer of compacted blue clay from 2 to 8 feet thick. To the east of the facility are original deposits classified as Dickinson soils. The topsoil is characterized by very dark brown, very dark gray and dark brown friable fine sandy loam. The subsoil is characterized by very dark grayish

brown, dark brown and yellowish brown friable fine sandy loam in the upper part and yellowish brown loamy sand in the lower part. The underlying material is principally brown sand to a depth of 60 inches (PCSWCD, 1992).

No site-specific geologic information was available, but in the vicinity of the Caterpillar facility, the surficial geology consists of Quaternary till. This is primarily sandy and slightly clayey silty till divided into two beds, often with intercalated lenses of sand and gravel. The entire land surface of Peoria County consists of unconsolidated glacial deposits, or drift, of Pleistocene (Wisconsinan) age, as well as alluvium derived from subsequent erosion of glacial materials by water (Bergstrom, 1956).

The uppermost bedrock beneath the glacial drift at the facility is Silurian in age. The rocks consist of limestones and dolomites with interbedded calcareous siltstones, and the total thickness may be greater than 250 feet. Beneath the Silurian rocks are dark gray to pale greenish-gray Ordovician shales, which are only identified in well records (Bergstrom, 1956).

2.6.4 Ground Water

In the vicinity of the facility, water may be supplied from Pleistocene sand and gravel deposits or from upper bedrock limestone of the Keokuk and Burlington Formations, which are Mississippian in age. Close proximity to the Illinois River produces sand and gravel aquifers which are highly permeable and an excellent source of water. Along the Illinois River in the Peoria region, the Sankoty sand and younger glacial outwash deposits are among the most prolific aquifers in the state (Bergstrom, 1956). The Sankoty sand, which forms a thick fill in and along the Illinois River valley, is the principal aquifer for municipal and industrial supplies. The thickness of this sand varies from 50 feet to 150 feet along the Illinois River, and may reach a maximum of up to 300 feet along the uplands to the west. Ground water flow at the facility is to the south. The deep wells are developed in dolomites of the Galena-Platteville Formations which are Ordovician in age (Bergstrom, 1956).

2.7 RECEPTORS

The Caterpillar facility occupies 608 acres in an industrial area in Mapleton, Illinois. Mapleton has a population of about 220. Caterpillar employs about 800 people.

The Caterpillar facility is bordered on the north by U.S. Route 24/Illinois Route 9 and the Village of Mapleton, on the west by open land and farmland, on the south by the Illinois River, a barge terminal and warehouse, and on the east by two chemical plants. The nearest school, Mapleton School, is located about 0.5 mile north of the facility. Facility access is controlled by fencing, security guards and video-monitoring (Caterpillar, 1992a). The nearest surface water body is the Illinois River, located on the south property line of the facility and is used for recreational, industrial, agricultural, and municipal water supply purposes. Other surface water bodies in the area include the Little Lamarsh Creek and the Pond of Lily Lake.

The Little Lamarsh Creek runs north and south, through the center of the Caterpillar property, between Buildings B and D and drains into the Illinois River. The Pond of Lily Lake is located approximately 1 mile southwest of Caterpillar's Building D and is on the north side of the Illinois River. Wetlands are abundant in the area. The entire Caterpillar site was originally wetlands and was altered for the current land use (USDA, 1992). There are no ground water wells in the vicinity of the facility. The nearest ground water wells are in the Village of Mapleton, approximately 0.5 mile from Caterpillar.

3.0 SOLID WASTE MANAGEMENT UNITS

This section describes the ten SWMUs identified during the PA/VSI. The following information is presented for each SWMU: description of the unit, dates of operation, wastes managed, release controls, history of documented releases, and RAI observations.

SWMU 1

Waste Sand Landfill Area

Unit Description:

The Waste Sand Landfill Area is an 82-acre landfill located in the southern section of the Caterpillar plant property. The landfill manages foundry sand from the Mapleton plant, consisting of core sand and waste foundry sand. Waste sand and broken cores (sand) are delivered to the landfill by trucks, scrapers and other hauling equipment. The waste materials are moved into place and compacted using common earthworking equipment. This landfill area also accepts dust waste from the facility's Baghouse Dust Collectors (SWMU 6). The total capacity of the landfill is greater than 2 million cubic yards. The landfill covers an area of approximately 2,100 feet by 1,500 feet (see Photograph No. 1)

Date of Startup:

The unit began operations in the mid-1970s.

Date of Closure:

The unit is currently operational and is permitted by the State of Illinois as a Solid Waste Disposal Site. The estimated year for final closure is 1995.

Wastes Managed:

The unit manages waste sand, broken cores (sand), and dust waste. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates this waste as nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste were not provided by Caterpillar. The Waste Sand Landfill Area has no monitoring wells which may indicate whether hazardous constituents

are disposed there (IEPA, 1990a). Hence, no waste designation has

been provided.

Release Controls:

The site was originally prepared by constructing levees on all sides and stockpiling the virgin soil for final cover. This unit has no liner.

No monitoring wells are located at this unit.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

The unit appears to be clean and well kept. No visual sign of releases

was observed.

SWMU 2

Former Hazardous Waste Drum Storage Area

Unit Description:

The Former Hazardous Waste Drum Storage Area is surrounded by an 8-foot fence and is located on the south side of Building Q. The area consists of an all gravel cover and occupies a space of approximately 80 feet by 80 feet. This area is no longer active (see Photograph

No. 2).

Date of Startup:

It is estimated to be 1967.

Date of Closure:

The unit is inactive; it is unknown when it became inactive. It is intended to go through RCRA closure in 1992.

Wastes Managed:

Hazardous wastes have been stored in this area, but according to a facility representative, no records are available to indicate which specific wastes were stored. The unit could have managed waste refractory coating (D001, F002, U226), waste resins (D001, D003, F002, U122), waste core catalyst (D001), waste janitorial products

(D001, D002), spent solvent (F002), and waste off-specification chemical (U226).

Release Controls:

No release controls were observed. Drums were originally stored on a gravel covered area.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

There were no drums left in this area. No visual signs of release were observed.

SWMU 3

Indoor Hazardous Waste Drum Storage Area

Unit Description:

The Indoor Hazardous Waste Drum Storage Area is located inside Building V. It consists of a concrete floor enclosed by two adjacent walls and a single strand chain-type fence. The area of this unit is approximate 30 feet by 60 feet. (See Photograph No. 3).

Date of Startup:

It is estimated to be 1967.

Date of Closure:

The unit is active. It is intended to go through RCRA closure in 1992.

Wastes Managed:

Hazardous wastes have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). The unit could also have managed waste refractory coating (D001, F002, U226), waste resins (D001, D003, F002, U122), waste core catalyst (D001), waste janitorial products (D001, D002), spent solvent (F002), waste off-specification chemical (U226), waste oil/grease (D008), and capacitors and transformers containing PCBs.

Release Controls:

The unit is inside, on a concrete floor.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

At the time of inspection, the unit contained approximately 70 drums of waste, all of which were stored on wooden skids. A brief examination of the area showed the drums containing waste oil (D008), waste grease (D008), waste resin solutions (D001, D002, F002, U122), waste janitorial products (D001, D002), and pesticide. No visual signs of releases were observed.

SWMU 4

Waste Oil Sump Area

Unit Description:

The Waste Oil Sump Area is located in Building V. It is a concrete pit where waste oil is obtained from changing oil in various vehicles. The opening appears to be 8 feet by 8 feet by 3 feet deep. The waste oil is pumped out of the sump into 55-gallon drums and is transported to various waste oil recyclers. Waste oil/grease (D008 and nonhazardous) is also generated from various types of machinery (see Photograph No. 4).

Date of Startup:

It is estimated to be the early 1980s.

Date of Closure:

The unit is active.

Wastes Managed:

The unit manages waste oil/grease (D008) and nonhazardous waste

oil/grease.

Release Controls:

The unit is indoors and constructed of concrete.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

No visual signs of release were observed in the area of the sump.

SWMU 5

Hazardous Waste Drum Storage Area

Unit Description:

The Hazardous Waste Drum Storage Area is in a separate enclosure located north of Building V. The enclosure is called V-16. The enclosure consists of three walls and a metal roof with a cyclone-type fence on the fourth side. The enclosure occupies an area approximately 12 feet by 30 feet, on concrete. The concrete floor is encompassed by a curb about 4 inches high (see Photograph No. 5).

Date of Startup:

It is estimated to be 1967.

Date of Closure:

The unit is active. It is intended to go through RCRA closure in 1992.

Wastes Managed:

Hazardous wastes have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). The unit could have managed waste refractory coating (D001, F002), waste resins (D001, D003, F00?, U122), waste core catalyst (D001), waste janitorial products (D001, D002), spent solvent (F002), waste off-specification chemical (U226), waste oil/grease (nonhazardous), and capacitors and transformers containing PCBs.

Release Controls:

The unit is on a concrete slab with a 4-inch-high curb encompassing its perimeter.

History of

Documented Releases:

No releases from the unit have been documented.

Observations:

The unit contained approximately 15 drums at the time of the VSI. Some of the drums contained nonhazardous waste oil. No visual signs of release were observed.

SWMU 6

Facility Baghouse Dust Collectors

Unit Description:

The Facility Baghouse Dust Collectors are an air pollution control system, used to control solid waste particulate emissions to the atmosphere in the facility's process areas. The baghouses are constructed of 10-gauge mild steel and the bags are made of polyester felt. The baghouses are located in three areas: Melting (30 units), Finishing (13 units), and 3500 Cell Area (5 units). The total capacity of the baghouses by area are Melting, 460,000 cubic feet per minute (cfm); Finishing, 485,000 cfm; and 3500 Cell Area, 125,000 cfm. The waste particulates captured in the collectors are discharged downward to hoppers at the bottom of each collector. The waste particulates are then discharged onto a conveyor system, which transports the waste particulates to a final storage hopper. The waste particulate collected in the hopper is then mixed with waste sand and water and taken to SWMU 1 (see Photograph No. 6).

Date of Startup:

It is estimated to be 1967.

Date of Closure:

This unit is active.

Wastes Managed:

This unit manages dust waste from the foundry process. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA regulates the dust waste as a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste was not provided by Caterpillar. Hence, no waste designation is given.

Release Controls:

There were no release controls observed.

History of

Documented Releases:

No releases from the unit have been documented.

Observations:

The dust collectors appeared sound and well kept. No visual signs of

releases were observed.

SWMU 7

Wastewater Treatment System

Unit Description:

The Wastewater Treatment System is used to clean up mill water from the foundry process and sanitary wastewater before it is discharged into the Illinois River. Caterpillar's combined industrial and sanitary wastewater treatment system has a maximum design capacity of 1 million gallons per day. It is located inside Building RR.

Caterpillar's wastewater treatment facility is extensive and constructed of a variety of materials. The most common materials are concrete and steel. The facility generated oil skimmings and sludge. There are 6,000 square feet of floor area where the sludge is deposited during cleanout of the treatment process. The sludge consists of solids which settle out during the treatment process. The sludge consists mainly of waste sand and grinding dust (see Photographs No. 7, 8, and 9).

Date of Startup:

The system was started in the mid-1970s.

Date of Closure:

The unit is active.

Wastes Managed:

This unit manages off-specification wastewater treatment plant chemicals (D001, D002) and dewatered sludge (nonhazardous).

Release Controls:

The system is inside a building with a concrete floor.

History of

Documented Releases:

No releases from the unit have been documented.

Observations:

The unit appeared sound and well kept. No visual signs of releases

were observed.

SWMU 8

Former Hazardous Waste Drum Storage Marshalling Area

Unit Description:

The Former Hazardous Waste Drum Storage Marshalling Area is located inside Building B, alongside the northern wall. The unit occupies an area of approximately 8 feet by 40 feet of concrete floor. This area is no longer in use. It was originally used as a temporary drum drop-off storage area before the drums were moved again to a more permanent storage area. Storage for one to two days is considered temporary storage by the Caterpillar personnel (see

Photograph No. 10).

Date of Startup:

It is estimated to be 1967.

Date of Closure:

The unit is inactive; it is unknown when it became inactive. It is intended to go through RCRA closure in 1992.

Wastes Managed:

The unit has stored spent solvent (F002), waste off-specification chemical (U226), and waste resins (D001, D002, F002, U122) (IEPA, 1985). Other than what was just described, other hazardous waste may have been stored in this area, but no records are available to indicate which specific wastes were stored (Caterpillar, 1992a). Other wastes may have included waste refractory coating (D001, F002, U226), waste core catalyst (D001), and waste janitorial products (D001, D002).

Release Controls:

The unit is inside a building on a concrete floor.

History of

Documented Releases:

No releases from the unit have been documented.

Observations:

There were no drums of waste in this area. No visual signs of release

were observed.

SWMU 9

Waste Scrubber Liquor Discharge Tank Area

Unit Description:

The Waste Scrubber Liquor Discharge Tank Area discharges waste triethylamine liquor through pipes, by gravity, from scrubbers located on the second floor to aboveground storage tanks located on the first floor (basement level). The tanks are indoors and on a concrete floor. The scrubber liquor is transferred from the storage tanks to a highway tanker truck by hauling it in a small, in-house (approximately 400-gallon) tanker. The waste liquor is then transported to Clean Harbors of Chicago, Illinois for aqueous organic treatment

(Caterpillar, 1992b).

Date of Startup:

It is estimated to be 1967.

Date of Closure:

The unit is active.

Wastes Managed:

This unit manages waste triethylamine scrubber liquor (D002).

Release Controls:

The USTs are equipped with leak detection devices.

History of

Documented Releases:

No releases from the unit have been documented.

Observations:

During the VSI, two triethylamine product USTs were represented as this unit. Information gained after the VSI determined the two USTs were misidentified (Caterpillar, 1992b). The room where this unit is located was not observed during the VSI.

SWMU 10

Phenolic Wastewater Storage Tank

Unit Description:

The Phenolic Wastewater Storage Tank was located outdoors, along the west wall of Building B. The unit stored nonhazardous phenolic wastewater that was generated during the core manufacturing process. According to a facility representative, this aboveground tank is believed to have had a capacity greater than 500 gallons and was constructed of steel. There was no concrete pad associated with this unit.

Date of Startup:

The unit began operations in the mid-1970s.

Date of Closure:

The unit was removed from the facility in the early 1980s.

Wastes Managed:

The unit managed phenolic wastewater. According to Illinois Disposal Permit No. 781475 issued to the facility, the phenolic wastewater was nonhazardous (Caterpillar, 1992d).

Release Controls:

The unit had no release controls.

History of Documented

Release:

According to a facility representative, some overflows occurred at this unit. Nonhazardous phenolic wastewater was released to the soil beneath and around the unit. Information regarding dates, amounts, and remedial actions associated with these releases was not available.

Observations:

The unit no longer exists at the facility. This SWMU was not identified until after the VSI; therefore, its location was not observed.

4.0 AREAS OF CONCERN

RAI identified four AOCs during the PA/VSI. These are discussed below and their locations are shown on Figure 3.

AOC 1

Underground Storage Tank Split-Pipeline Leak Area

On December 1, 1982, there was a gasoline pipeline leak. This area is located immediately south of Building B. The leak occurred from a split in a pipe that fed gasoline from an UST into pumps for vehicles. The line was shut off. The exact volume of the spill is not known. The leak was reported to NRC on December 1, 1982. According to a facility representative, sampling and any necessary removal and proper disposal of soil is scheduled for the near future (Caterpillar, 1992a). Until remediation is completed and approved by IEPA, the spill is considered an AOC.

AOC 2

Sulfuric Acid Leak Area

On November 7, 1990, there was a sulfuric acid leak from an acid feed line for the wastewater treatment plant, outdoors of Building RR. The leak was reported to NRC on the same day. The leak had contaminated soil in the immediate area. The maximum amount of sulfuric acid released was 2,400 pounds. Thirty 55-gallon drums of contaminated material were removed by Caterpillar personnel and shipped out (Caterpillar, 1992d). There is no documentation of (1) where the soil was removed, (2) sampling results to confirm that no contamination exists, or (3) IEPA approval; therefore this spill area is considered an AOC (see Photograph No. 11).

AOC 3

Abandoned Underground Storage Tank Leak Area

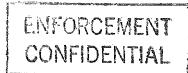
In mid-January 1992, Caterpillar detected a gasoline leak in what appeared to be an abandoned UST. This incident occurred just before RAI conducted the VSI and minimal information is available regarding the leak. Based on some tests performed on site, some contamination was detected. The nature of the tests is not known. It is understood that Caterpillar intends to perform further testing and to remediate as required. The incident was reported to the Illinois Emergency Service and Disaster Agency (IESDA) who then notified IEPA about the release. No further information was given to RAI regarding this release (Caterpillar, 1992c).

AOC 4

Diesel Fuel Truck Saddle Tank Spill Area

On December 19, 1991, a truck (not belonging to Caterpillar) had an accident at the Caterpillar facility. As a result of the accident, a diesel fuel saddle tank was ripped away from the truck causing a diesel fuel spill which contaminated the soil in that area. The owner of the truck contracted a spill response compa y to clean up the area. Some contaminated soil was removed and disposed of by the spill response company. There is no documentation of sampling or where the contaminated soil was shipped (Caterpillar, 1992a).

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INITIALS LATE



5.0 CONCLUSIONS AND RECOMMENDATIONS

The PA/VSI identified ten SWMUs and four AOCs at the facility. Background information on the facility's location, operations, waste generating processes, history of documented releases, regulatory history, environmental setting, and receptors is presented in Section 2.0. SWMU-specific information, such as the unit's description, dates of operation, wastes managed, release controls, history of documented releases, and observed condition, is discussed in Section 3.0. AOCs are discussed in Section 4.0. Following are RAI's conclusions and recommendations for each SWMU and AOC. Table 3 identifies the SWMUs and AOCs at the Caterpillar facility and recommended further actions.

SWMU 1

Waste Sand Landfill Area

Conclusions:

The unit is currently operational and is permitted by the State of Illinois as a Solid Waste Disposal Site. The unit manages waste sand and dust. Caterpillar claims that this waste is nonhazardous (Caterpillar, 1992b). IEPA claims that the waste is a nonhazardous special waste (IEPA, 1988b, 1989). Hazardous constituent analyses for this waste and a copy of the current special waste disposal permit application were not provided by Caterpillar. This unit has no monitoring wells which may indicate whether hazardous constituents are disposed there (IEPA, 1990a). This unit has no liner. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is moderate to high since the hazardous constituent content in the waste disposed in this unit is unknown.

Recommendations:

RAI recommends soil sampling to determine if hazardous constituent contamination does exist at this unit. If contamination is found, ground water sampling is recommended. RAI also recommends that hazardous constituent analyses be performed on the waste sand and dust.

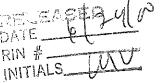


TABLE 3

SWMU AND AOC SUMMARY

ENFORCEMENT CONFIDENTIAL

	SWMU	Dates of Operation	Evidence of Release	Recommended Further Action
1.	Waste Sand Landfill Area	Mid-1970s to present	None	Perform soil sampling to determine if hazardous constituent contamination does exist. If so, then ground water sampling is recommended. Perform hazardous constituent analyses on waste sand and dust.
2.	Former Hazardous Waste Drum Storage Area	1967 to unknown	None	Complete RCRA closure as planned.
3.	Indoor Hazardous Waste Drum Storage Area	1967 (estimated) to present	None	Complete RCRA closure as planned.
4.	Waste Oil Sump Area	Early 1980s to present	None	No further action is recommended at this time.
5.	Hazardous Waste Drum Storage Area	1967 (estimated) to present	None	Complete RCRA closure as planned.
6.	Facility Baghouse Dust Collectors	1967 (estimated) to present	None	Perform waste analysis of waste dust to determine if hazardous. If so, sampling may be necessary of all environmental media.

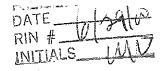
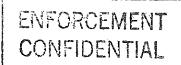


TABLE 3 (continued)



SWMU AND AOC SUMMARY

	SWMU	Dates of Operation	Evidence of Release	Recommended Further Action
7.	Wastewater Treatment System	Mid-1970s to present	None	No further action is recommended at this time.
8.	Former Hazardous Waste Drum Storage Marshalling Area	1967 (estimated) to unknown	None	Complete RCRA closure as planned.
9.	Waste Liquor Scrubber Discharge Tank Area	1967 (estimated) to present	None	No further action is recommended at this time.
10	Phenolic Wastewater Storage Tank	Mid-1970s to early 1980s	According to the facility representative, overflows to soil occurred at this time.	Soil sampling should be conducted to determine if contamination from previous releases occurred.
	AOC	Dates of Operation	Evidence of Release	Recommended Further Action
1.	Underground Storage Tank Split-pipeline Leak Area	1982 to present	UST Gasoline Leak December 1, 1982	Soil testing and tank integrity testing; remediation if necessary.
2.	Sulfuric Acid Leak Area	1990 to present	Sulfuric Acid Leak November 7, 1990	Soil testing and remediation if necessary.

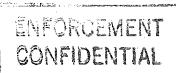


TABLE 3 (continued)

SWMU AND AOC SUMMARY

	AOC	Dates of Operation	Evidence of Release	Recommended Further Action
3.	Abandoned Underground Storage Tank Leak Area	Mid-January 1992 to present	UST Gasoline Leak, January 1992	Soil testing and tank integrity testing; remediation if necessary.
4.	Diesel Fuel Truck Saddle Tank Spill Area	One-time spill 1991	Broken Saddle Tank on Truck December 1991	Soil testing and remediation if necessary.





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SWMU 2

Former Hazardous Waste Drum Storage Area

Conclusions:

The unit is no longer active. Hazardous waste was originally stored on gravel- covered ground which is surrounded by an 8-foot fence. This unit is intended to go through formal RCRA closure in 1992. The potential for future release of hazardous constituents to ground water, surface water, air, or on-site soils is low. The past potential for release of hazardous constituents to on-site soils was low to moderate because the soil was unprotected, although there has been no history of documented releases. The past potential for release of hazardous constituents to ground water, surface water, or air is low because the waste was stored in drums and if there was a spill it would be small in quantity.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 3

Indoor Hazardous Waste Drum Storage Area

Conclusions:

This unit is active and stores drums containing hazardous wastes. The waste is stored indoors, on a concrete floor. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure in 1992. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

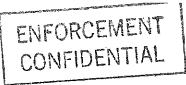
SWMU 4

Waste Oil Sump Area

Conclusions:

This unit is located indoors and the area is constructed of concrete.

No documented releases from this unit have occurred. The potential



for release of hazardous constituents to ground water, surface water, air, or on-site soil is low.

Recommendations:

RAI recommends no further action for this unit.

I

Hazardous Waste Drum Storage Area

Conclusions:

SWMU 5

This unit is outdoors and consists of a concrete floor with a 4-inch-high curb around its perimeter. Three walls and the roof are made of metal and the fourth side is a cyclone-type fence. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure in 1992. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 6

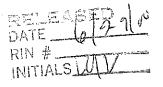
Facility Baghouse Dust Collectors

Conclusions:

The dust collected from this unit is discharged into a storage hopper where it is mixed with sand and water and transported to SWMU 1. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air, or on-site soils from this unit is moderate to high since the waste designation is unknown and no release controls were observed.

Recommendations:

RAI recommends that the waste be sampled for hazardous constituents. If the waste is determined to be hazardous, sampling at this unit for all environmental media may be necessary.



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SWMU 7

Wastewater Treatment System

Conclusions:

This system cleans mill water from the foundry process and sanitary sources, and discharges the effluent into the Illinois River. The treatment system is located inside a building with concrete floors and pit walls. No documented releases from this unit have occurred. The potential for release of hazardous constituents to ground water, surface water, air or on-site soils from this unit is low.

Recommendations:

RAI recommends no further action for this unit.

SWMU 8

Former Hazardous Waste Drum Storage Marshalling Area

Conclusions:

This unit is no longer active. Hazardous waste was originally stored indoors, on a concrete floor. No documented releases from this unit have occurred. This unit is intended to go through formal RCRA closure in 1992. The potential for release of hazardous constituents to ground water, surface water, air, and on-site soils from this unit is low.

Recommendations:

RAI recommends the facility complete RCRA closure as planned.

SWMU 9

Waste Scrubber Liquor Discharge Tank Area

Conclusions:

The waste triethylamine scrubber liquor (D002) flows through pipes, by gravity, from scrubbers located on the second floor to aboveground storage tanks located on the first floor (basement level). The tanks are indoors and on a concrete floor. The potential for release of hazardous constituents to ground water, air, surface water, or on-site soils from this unit is low. The scrubber liquor is transferred from the storage tanks to the highway tanker truck by hauling it in a small, in-house (approximately 400 gallon) tanker.

Recommendations:

RAI recommends no further action for this unit.

SWMU 10

Phenolic Wastewater Storage Tank

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Conclusions:

This unit stored phenolic wastewater prior to on-site biological treatment. Overflows to exposed soil occurred at the unit. The unit was removed from the facility in the early 1980s. The current potential for release of hazardous constituents to ground water, surface water, air and on-site soils is low or nonexistent.

Recommendations:

Soil sampling should be conducted to determine if contamination from the previous releases has occurred.

AOC 1

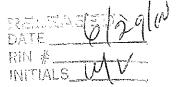
Underground Storage Tank Split-Pipeline Leak Area

Conclusions:

The leak occurred from a split in a pipe that fed gasoline from an UST into the vehicles. The split in the pipe occurred above the UST, about 10 inches below grade, releasing gasoline to the on-site soils. The potential for release of hazardous constituents to surface water and air is low because the split pipe is considered a one-time incident. The potential for release of hazardous constituents to ground water is moderate. According to a facility representative, sampling and any necessary removal and disposal of soil is scheduled for the near future (Caterpillar, 1992a).

Recommendations:

The soil surrounding the spill area should be tested for contamination. If soil contamination is discovered, the ground water should be tested for contamination. In addition, the tank integrity should be investigated. Remediation of the area should be performed if necessary.



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AOC 2

Sulfuric Acid Leak Area

Conclusions:

The leak occurred outdoors, and had contaminated an area outside Building RR. The area was cleaned up by Caterpillar personnel, but there is no documentation of the cleanup procedures. The potential for releases of hazardous constituents to ground water, surface water, air, or on-site soils is low or nonexistent, because this was an unusual incident and maintenance discipline should eliminate recurrence of the problem.

Recommendations:

The soil in this area should be tested for contamination. Remediation of the area should be performed if necessary.

AOC 3

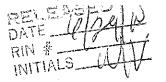
Abandoned Underground Storage Tank Leak Area

Conclusions:

This leak occurred approximately one week before RAI conducted the VSI, and the information available was minimal. A gasoline leak was detected in what appeared to be an abandoned underground storage tank. Based on preliminary tests, contamination of the soil was detected. Further tests and remediation will be performed as required. Not knowing what was done to stop the leak or to prevent the leak from recurring, it seems apparent that the potential for future releases to soil is moderate to high. The potential for release to ground water is moderate because contaminants in the soil may leach to the ground water. The potential for releases to air and surface water is low because the tanks are underground.

Recommendations:

The soil surrounding the tank should be tested for contamination. In addition, the tank's integrity should be investigated. Remediation of the area should be performed if necessary.



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AOC 4

Diesel Fuel Truck Saddle Tank Spill Area

Conclusions:

The spill occurred when a diesel fuel saddle tank was accidentally ripped away from a truck. The spill contaminated the soil next to the roadway. Some contaminated soil was removed and disposed of by an outside spill response company. The potential for release to surface water or air is low or nonexistent due to the nature of the waste and the distance to surface water. The potential for release to ground water is moderate because there was no evidence of sampling results.

Recommendations:

The soil in this area should be tested for contamination. Remediation of the area should be performed if necessary.

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- Caterpillar, 1984b. EPA Hazardous Waste Permit Application, December 21.
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- Caterpillar, 1988. Part of general correspondence and attached to this reference letter with a RCRA permit form, November 7.
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- Caterpillar, 1992a. FAX information received from Carey French (Caterpillar) in answer to questions she received from Arthur Marshalla (RAI) on January 27, 1992, mainly pertaining to SWMUs, spills and environmental receptors, January 30.
- Caterpillar, 1992b. FAX information received from Carey French (Caterpillar) on questions asked during VSI. FAX includes waste records for 1988, 1989, and 1990, February 12.
- Caterpillar, 1992c. Phone conversation between Scott Tajak (RAI) and Carey French (Caterpillar) in reference to a recent gasoline leak, February 25.
- Caterpillar, 1992d. Phone conversation between Scott Tajak (RAI) and Carey French (Caterpillar) in reference to RAI obtaining information about the volume of spills and the amount of soil remediated. This information was received by FAX from Caterpillar, March 31.
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- IEPA, 1987. Inspection report, September 10.
- IEPA, 1988a. Inspection report for special waste landfill area, June 6.
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- IEPA, 1989. Inspection report, July 27.
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ATTACHMENT A EPA PRELIMINARY ASSESSMENT FORM 2070-12



POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION				
O1 STATE	02 SITE NUMBER			
11	II D 052 664 364			

II. SITE NAME AND LOCATION							
01 SITE NAME (Legal, common, or descriptive name of site)			02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Caterpillar, Inc. 8826 W. Route 24							
03 CITY		04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY	08 CONG	
Mapleton		IL	61547	Peoria	CODE	DIST	
09 COORDINATES: LATITUDE	LONGITUDE						
40 33 035.N	89 44 008.W -						
10 DIRECTIONS TO SITE (Starting from nearest public ro.					 		
The facility is located on Route 24 approximately 7 miles		nilae equth	of Route 9				
the racinty is tocated on Houte 24 approximately 7 mines	South of Beltonsville and 4 t	ines south	or ribute 5.				
				· ·			
III. RESPONSIBLE PARTIES 01 OWNER (if known)	-	na street	(Business, mailin	n recidentiali			
Caterpillar, Inc.		100 N.E. A		y residentialy			
O3 CITY			05 ZIP CODE	06 TELEPHONE			
Peoria O7 OPERATOR (If known and different from owner)		IL OR STREET	61629 (Business, mailin	(309) 675-1000)		
Caterpillar, Inc.		8826 W. F		y, residential,			
09 CITY			11 ZIP CODE	12 TELEPHONE			
Mapleton 13 TYPE OF OWNERSHIP (Check one)		IL.	61547	(309) 633-8425			
■ A. PRIVATE ■ B. FEDERAL:	ne.	□с	. STATE	D. COUNTY	E. MUNI	CIPAL	
(Agen	icy name)						
D F. OTHER		☐ G. UNK	NOWN				
(Specify)							
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check a	all that apply)						
🗷 A. RCRA 3010 DATE RECEIVED: <u>08 / 18 /</u>	80 DB, UNCONTROLLED	WASTE SIT	E (CERCLA 103 c)	DATE RECEIVE	D: <u>/ /</u>	CC. NONE	
MONTH DAY YE	AR				MONTH DAY YEAR		
IV. CHARACTERIZATION OF POTENTIAL HAZ	'ARD						
	all that apply)						
□ A. EPA	DE B. EPA CON						
ME YES DATE 01 / 22/ 92 DEL LOCAL HEALTH OFFICIAL DEF. OTHER:						RACTOR	
□ NO	AL HEALTH OFFICIAL				D. OTHER CONTR	RACTOR	
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O2 SITE STATUS (Check one)	TOR NAME(S):Resource App	F. OTH	ne,		D. OTHER CONTR	ACTOR .	
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O NO CONTRACT O2 SITE STATUS (Check one) A. ACTIVE B. INACTIVE C.	TOR NAME(S): Resource App 03 YEARS UNKNOWN BEGIN	DICATIONS, I	nc.	(Specify)			
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION				
01 STATE 02 SITE NUMBER				
El	ILD 052 664 364			

	erhand trainin				
	TATES, QUANTITIES, AND CHA TATES (Check all that apply)	RACTERISTICS 102 WASTE QUA	NITITY AT CITE	TOS WASTE CHARACTERIS	TICS (Check all that apply)
			of waste quantities	03 WASTE CHARACTERS	Hos Jeneek all that apply)
M A. SOLI		must be it	ndependent)	M A. TOXIC	H. IGNITABLE
™ B. POW	der, fines 🛭 F. Liquid DGE 🗗 G. Gas	TON ~ -	·	B. CORROSIVE C. RADIOACTIVE	I. HIGHLY VOLATILE J. EXPLOSIVE
		<u> </u>		D. PERSISTENT	K. REACTIVE
D. OTHE	R(Specify)	CUBIC YA	RDS	E. SOLUBLE F. INFECTIOUS	L. INCOMPATIBLE M. NOT APPLICABLE
	(Specify)	NO. OF DE	RUMS	G. FLAMMABLE	d W. NOT APPLICABLE
III. WASTE T		64 60000 THE	TO THE OF MENOUSE I	62 COMMENTS	
CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS	
SLU	SLUDGE		100 cubic yards/day		
OLW	OILY WASTE		1650 gallons/month		
SOL	SOLVENTS		7000 gallons/month		
PSD	PESTICIDES				
DCC	OTHER ORGANIC CHEMICALS		450 gallons/year		
100	INORGANIC CHEMICALS		660 gallons/year		
ACD	ACIDS				
BAS	BASES				
MES	HEAVY METALS		. *		
IV HAZADE	DOUS SUBSTANCES (See Append	dy for most from	with aited CAS Numb	oroi	
01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER		ers) METHOD 05 CONCENTRATIO	N LOG MEASURE OF
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	CKS (See Appendix for CAS Nur.				
CATEGORY FDS	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS FDS		
FDS			FDS	# *** · · · · · · · · · · · · · · · · ·	
FDS			FDS		
	S OF INFORMATION (Cite speci	fic references; e.g.,	, state files, sample a	nalysis, reports)	
EPA Region	5 RCRA files.				
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION				
01 STATE 02 SITE NUMBER				
IL IID 052 664 364				

AZARDOUS CONDITIONS AND INCIDENTS		The state of the s	
1 LA. GROUNDWATER CONTAMINATION	02 D OBSERVED (DATE:)	D POTENTIAL	DALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None identified.	· -		
•	-		
01 B. SURFACE WATER CONTAMINATION	02 DOBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None identified.			
45.460 - 10.460 - 10.460			
01 C. CONTAMINATION OF AIR	02 D OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None identified.			
			•
OI H D. EIDERVOLGGOVE ASSISTANCE	02 TO ODCEDUED (DATE	B BOTEMEN	□ ALLEGED
01 D. FIRE/EXPLOSIVE CONDITIONS	02 D OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None identified.			
ON THE DIRECT CONTACT	02 II OBSEDVED (DATE:	□ POTENTIAL	□ ALLEGED
03 DOBILATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:)	a POTENTIAL	₽ WELEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
NUMBER GRADINES.	*		
None identified.	•		
поне менинес.			
O1 & F. CONTAMINATION OF SOIL	02 D OBSERVED (DATE:	N POTENTIAL	ALLEGED
	02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	■ POTENTIAL	DALLEGED
01 M F, CONTAMINATION OF SOIL		■ POTENTIAL	DALLEGED
01 F. CONTAMINATION OF SOIL O3 AREA POTENTIALLY AFFECTED: Unknown	04 NARRATIVE DESCRIPTION		ALLEGED
01 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: Unknown (Acres)	04 NARRATIVE DESCRIPTION		DALLEGED
O1 F. CONTAMINATION OF SOIL O3 AREA POTENTIALLY AFFECTED: Unknown (Acres) Based on the four AOCs, further tests are recommende	04 NARRATIVE DESCRIPTION d to determine if contemination exists and what are	eas it covers.	
01 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: Unknown (Acres) Based on the four AOCs, further tests are recommende	04 NARRATIVE DESCRIPTION d to determine if contemination exists and what are		□ ALLEGED
01 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: Unknown (Acres) Based on the four AOCs, further tests are recommende 01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION d to determine if contemination exists and what are	eas it covers.	
01 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: Unknown (Acres) Based on the four AOCs, further tests are recommende	04 NARRATIVE DESCRIPTION d to determine if contemination exists and what are	eas it covers.	
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION				
01 STATE 02 SITE NUMBER				
IL.	ILD 052 664 364			

HAZARDOUS CONDITIONS AND INCIDENTS (Co	****		
01 DJ. DAMAGE TO FLORA	02 D OBSERVED (DATE:)	D POTENTIAL	D ALLEGED
04 NARRATIVE DESCRIPTION			
None identified.			
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01 DK. DAMAGE TO FAUNA	02 D OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species	s)		
None identified.		•	
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01 D L. CONTAMINATION OF FOOD CHAIN	02 D OBSERVED (DATE:)	□ POTENTIAL	D ALLEGED
04 NARRATIVE DESCRIPTION			
None identified.			
		•	
01 DM. UNSTABLE CONTAINMENT OF WASTES	02 D OBSERVED (DATE:)	□ POTENTIAL	D ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None Identified.			
	•		
01 D N. DAMAGE TO OFF-SITE PROPERTY	02 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION	•		
None identified.		•	
01 0. CONTAMINATION OF SEWERS, STORM DRAINS,	WWTPS DOBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
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None Identified.			
01 P. ILLEGAL/UNAUTHORIZED DUMPING	02 D OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
04 NARRATIVE DESCRIPTION			
None identified.			•
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05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL,	OR ALLEGED HAZARDS		
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ATTACHMENT B

VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS

VISUAL SITE INSPECTION SUMMARY

Caterpillar, Inc. Mapleton, Illinois ILD 052 664 364

Date:

January 22, 1992

Facility Representatives:

Robert Kilgo, Corporate, Environmental Dept.

Carey French, Staff Engineer/Facilities Engineering

William E. Schulze, Jr., Utilities Engineering Superintendent

Inspection Team:

Arthur Marshalla, Resource Applications, Inc. (RAI)

Scott Tajak, RAI

Photographer:

Scott Tajak

Weather Conditions:

Rainy, temperature about 40°F

Summary of Activities:

The visual site inspection (VSI) began at 9:00 a.m. with an introductory meeting. The inspection team discussed the purpose of the VSI and the agenda for the visit. Facility representatives then discussed Caterpillar's past and current operations, solid wastes generated, and release history. Most of the information was exchanged on a question-and-answer basis.

The VSI tour began at 1:00 p.m. Mr. William E. Schulze, Jr. discussed specific operations at each area as we walked through the production areas. The inspection began inside at the main plant (Building D). We walked through the entire production line from the core making area, to the molding area (including machining and tooling) to the steel melting and pouring area, and finally to the finishing area. In addition to the above mentioned standard production line, there is also a special molding line for cylinder liners. The SWMUs observed during the inspection were clean and well maintained.

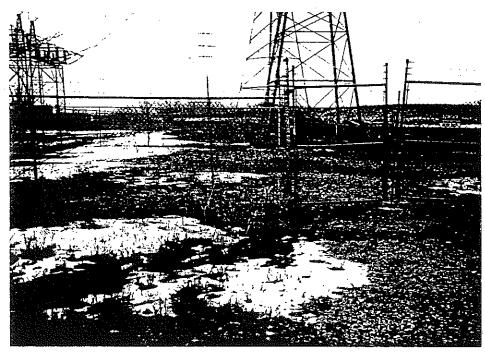
The tour was concluded at 3:30 p.m after which the inspection team held a brief exit meeting with Caterpillar representatives. The VSI was completed and the inspection team left the facility at 4:00 p.m.



Photograph No. 1 Orientation: Southwest

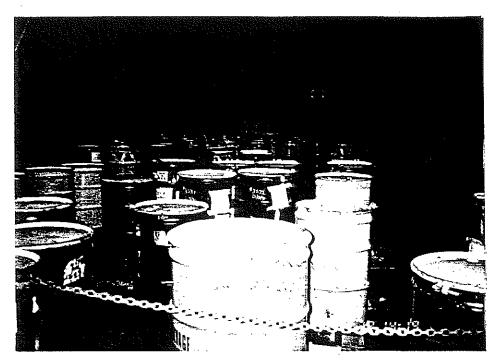
Description: Waste Sand Landfill Area.

Location: SWMU 1 Date: 1/22/92



Photograph No. 2
Orientation: East
Location: SWMU 2
Date: 1/22/92

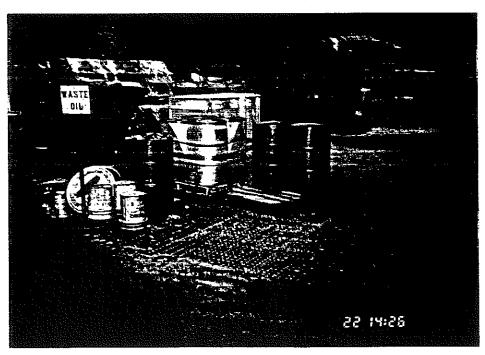
Description: South portion of the fenced-in area of Former Hazardous Waste Drum Storage Area.



Photograph No. 3 Orientation: South

Description: Chained-in Indoor Hazardous Waste Drum Storage Area.

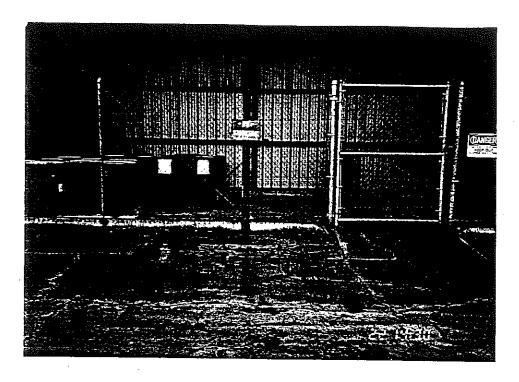
Location: SWMU 3 Date: 1/22/92



Photograph No. 4 Orientation: West

Description: Waste Oil Sump Area showing floor grating over sump area.

Location: SWMU 4 Date: 1/22/92

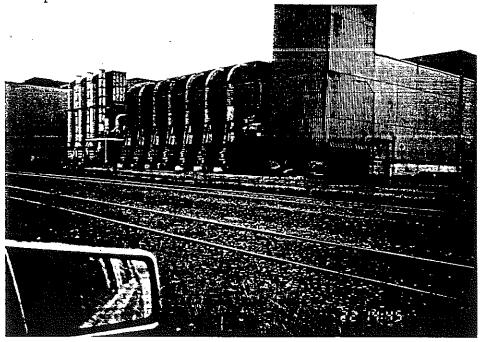


Photograph No. 5
Orientation: South

Location: SWMU 5 Date: 1/22/92

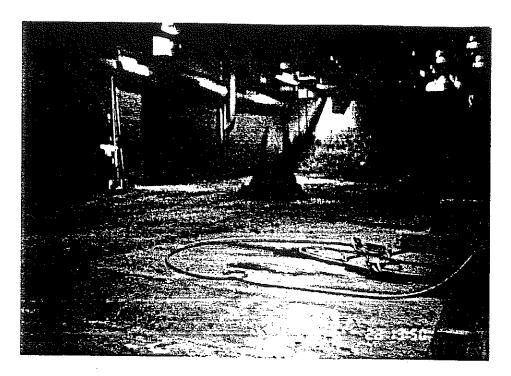
Description: Hazardous Waste Drum Storage Area showing three-sided enclosure with fenced-in

front and concrete pad with curbs.



Photograph No. 6 Location: SWMU 6
Orientation: Northwest Date: 1/22/92

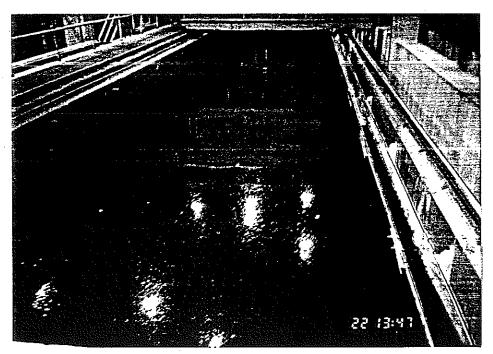
Description: Facility Baghouse Dust Collectors on south wall of Building B.



Photograph No. 7 Orientation: Southeast

Description: Wastewater Treatment System, sludge bay area.

Location: SWMU 7 Date: 1/22/92

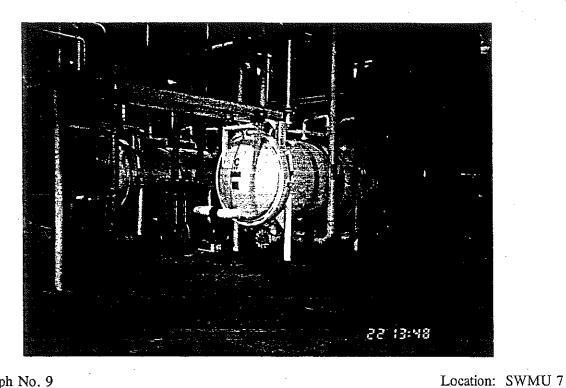


Photograph No. 8 Orientation: Southeast

Description: Wastewater Treatment System, sand filter area.

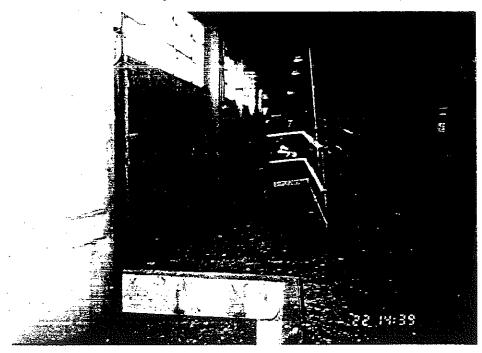
Location: SWMU 7

Date: 1/22/92



Photograph No. 9 Orientation: Northwest

Description: Wastewater Treatment System, carbon filter area.



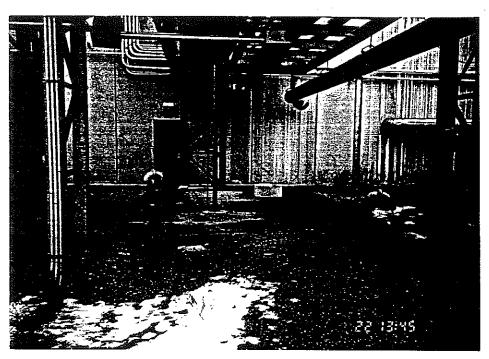
Photograph No. 10 Orientation: North Location: SWMU 8

Date: 1/22/92

Date: 1/22/92

Description: Former Hazardous Waste Drum Storage Marshalling Area along side the northern wall

in Building B.



Photograph No.11
Orientation: East
Description: Location of Sulfuric Acid Leak.

Location: AOC 2 Date: 1/22/92

ATTACHMENT C
VISUAL SITE INSPECTION FIELD NOTES

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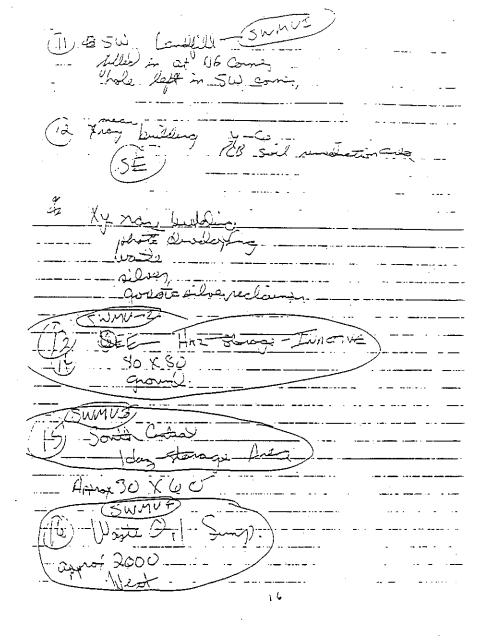
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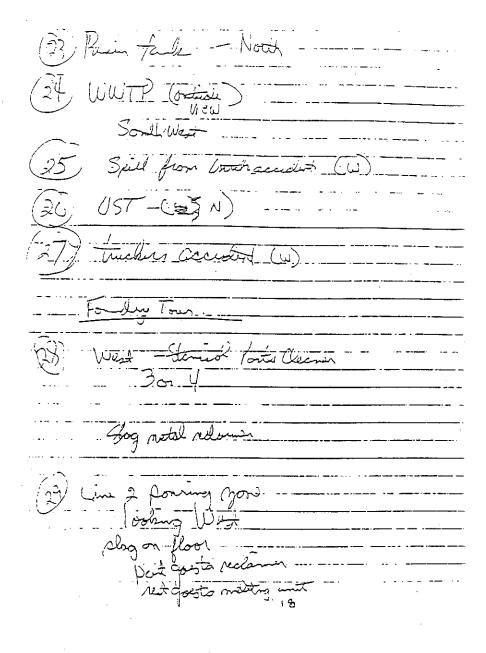
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

HRE-8J

January 8, 1992

Ms. Carey French, P.E. Environmental Engineering Caterpillar, Inc. 8826 Route 24 Mapleton, IL 61547

Re:

Visual Site Inspection Caterpillar, Inc. ILD 052 664 364

Dear Ms. French:

The United States Environmental Protection Agency (U.S. EPA) Region V will conduct a Preliminary Assessment including a Visual Site Inspection (PA/VSI) at the referenced facility. This inspection is conducted pursuant to the Resource Conservation and Recovery Act, as amended (RCRA) Section 3007 and the Comprehensive Environmental Response, Compensation, and Liability Act, as amended (CERCLA) Section 104(e). The referenced facility has generated, treated, stored, or disposed of hazardous waste subject to RCRA. The PA/VSI requires identification and systematic review of all solid waste streams at the facility. The objective of the PA/VSI is to determine whether or not releases of hazardous wastes or hazardous constituents have occurred or are occurring at the facility which may require further investigation. This analysis will also provide information to establish priorities for addressing any confirmed releases.

The visual site inspection of your facility is to verify the location of all solid waste management units (SWMUs) and areas of concern (AOCs) to make a cursory determination of their condition by visual observation. The definitions of SWMUs and AOCs are included in Attachment I. The VSI supplements and updates data gathered during a preliminary file review. During this site inspection, no samples will be taken. A sampling visit to ascertain if releases of hazardous waste or constituents have occurred may be required at a later date.

Assistance of some of your personnel may be required in reviewing solid waste flow(s) or previous disposal practices. The site inspection is to provide a technical understanding of the present and past waste flows and handling, treatment, storage, and disposal practices. Photographs of the facility are necessary to document the condition of the units at the facility and the waste management practices used.

The VSI has been scheduled for January 22 & 23, 1992 at 9:00 am. The inspection team will consist of Arthur Marshalla and Scott Tajak of Resource Applications, Inc., a contractor for the U.S. EPA. Representatives of the Illinois Environmental Protection Agency (IEPA) may also be present. Your cooperation in admitting and assisting them while on site is appreciated.

The U.S. EPA recommends that personnel who are familiar with the present and past manufacturing and waste management activities be available during the VSI. Access to any relevant maps, diagrams, hydrogeologic reports, environmental assessment reports, sampling data sheets, environmental permits (air, NPDES), manifests and/or correspondence is also necessary, as such information is needed to complete the PA/VSI. Attachment II is a summary of the information required.

If you have any questions, please contact me at (312) 886-4448 or Francene Harris at (312) 886-2884. A copy of the Preliminary Assessment/Visual Site Inspection Report, excluding the conclusions and Executive Summary portion will be sent when the report is available.

Sincerely yours,

Kevin M. Pierard, Chief/

OH/MN Technical Enforcement Section

enclosure

cc: John Tripses, Region Manager, IEPA Peoria

Larry Eastep, Manager, Permit Section, IEPA Springfield

ATTACHMENT I

Caterpillar, Inc. 8826 Route 24 Mapleton, IL 61547

The definitions of solid waste management unit (SWMU) and area of concern (AOC) are as follows.

A SWMU is defined as any discernable unit where solid wastes have been placed at any time from which hazardous constituents might migrate, regardless of whether the unit was intended for the management of a solid or hazardous waste.

The SWMU definition includes the following:

- RCRA regulated units, such as container storage areas, tanks, surface impoundments, waste piles, land treatment units, landfills, incinerators, and underground injection wells
- Closed and abandoned units
- Recycling units, wastewater treatment units, and other units that U.S. Environmental Protection Agency has generally exempted from standards applicable to hazardous waste management units
- Areas contaminated by routine and systematic releases of wastes or hazardous constituents, such as wood preservative treatment dripping areas, loading or unloading areas, or solvent washing areas

An AOC is defined as any area where a release to the environment of hazardous wastes or constituents has occurred or is suspected to have occurred on a nonroutine or nonsystematic basis. This includes any area where such a release in the future is judged to be a strong possibility.

ATTACHMENT II

PROBABLE SOLID WASTE MANAGEMENT UNITS (SWMUs)

1. Little information was available to compile a list of solid waste management units (SWMUs) at your facility. Please list all waste management units at your facility. If possible, please provide as complete information for the waste unit in response to the questions below.

From the list of probable SWMUs please address the following questions:

- Do the above SWMUs still exist at the facility and are they in operation?
- · What are the start-up and closure dates of the above SWMUs?
- What types of wastes are the SWMUs currently/formerly used for?
- Name any SWMUs at your facility that have not been listed above. These would include hazardous waste storage areas, treatment units, or any other area or system at your facility dealing with hazardous waste including satellite accumulation areas.
 - What are the average volumes and rates of generation of waste streams?
- Document any releases that have occurred at the facility. This includes spills or leaks of both wastes and raw product. Outline the action taken to clean up the release.
- 2. Please supply as much information as possible concerning the site history. This would include any information you have regarding operations and any other owner/operators at this location.
- Please provide a description of the primary processes taking place at your facility and the waste streams which are generated.
- 4. Describe the methods of treatment and disposal of generated waste utilized by your facility.

If available, the following items are requested:

- A detailed map of the facility showing the location of the SWMUs and production stations.
- Flow diagrams showing waste streams and waste management practices.
- Copies of any permits currently held by the facility.
- SARA Title III information and a copy of the facility contingency plan.

CORRECTIVE ACTION STABILIZATION QUESTIONNAIRE

Completed by:	Mary Woje	:iechowski			707 19 E.
Date:	<u>September</u>	3, 1992		al all	
Background Facil	ity Informa	tion	AG		
Facility Name:		Caterpillar, Inc.	11/	NITIALS DOLL	
EPA Identification	n No ·	ILD 052 664 364	7,		
Location (City, St		Mapleton, Illinois			And the second second
Facility Priority R	•	High			A Company of the Comp
				A Secretary and the second	garter and a second
				A company of	
	nanagement	mpleted for one unit (SWMU), entire facility?	3.	If corrective action action initiated, are they being of a permit or an enforcement	carried out under
377 / 1				() Operating permit	
Entire facility 10 SWMUs				() Post-closure permit	
4 AOCs				() Enforcement order (X) Other (Explain)	
				(A) Other (Explain)	
				past corrective action appe luntary, but was approved	
Status of Correct Facility 2. What is the			4.	Have interim measures, completed [see Question 2] in preventing the fur contamination at the faci], been successful ther spread of
		s at the facility?		() Yes	
		•		() No	
* *	ive action ac	ctivities initiated		(X) Uncertain; still under	way
(Go to 5)	***	(5.7.1)		() Not required	
	cility Asses: completed	sment (RFA) or		Addistant and and an a	- 4
-	-	estigation (RFI)		Additional explanatory n	otes:
underway		Stigution (ICI I)	Fu	rther investigation is nee	eded to address
() RFI compl	leted			naining contamination at t	
		Study (CMS)			
completed				ALE SALES	-
		Implementation			
	un or comp	leted un or completed			
() 1110011111 141	casares beg	an or combieted		•	

Fac	cility Releases and Exposure Concerns
5.	To what media have contaminant releases from the facility occurred or been suspected of occurring?
	(X) Ground water(X) Surface water() Air(X) Soils
6.	Are contaminant releases migrating off-site?
	() Yes; Indicate media, contaminant concentrations, and level of certainty.
Gro	oundwater:
<u>Sur</u>	face water:
<u>Air</u>	•
Soil	ls:
	() No (X) Uncertain
7a.	Are humans currently being exposed to contaminants released from the facility?
	() Yes (Go to 8a) () No (X) Uncertain
	Additional explanatory notes:

Migration of contaminants has not been

7b. Is there a potential for human exposure to the contaminants released from the facility

over the next 5 to 10 years?

confirmed.

(X) Yes () No

() Uncertain

Additional explanatory notes: A creek runs through the facility and a river is 700 feet south of the facility. The river is used for recreation and municipal water supply. Wells are located 1/2 mile from the facility. 8a. Are environmental receptors currently being exposed to contaminants released from the facility? () Yes (Go to 9) () No (X) Uncertain Additional explanatory notes: Migration of contaminants has not been confirmed. 8b. Is there a potential that environmental receptors could be exposed to the contaminants released from the facility over the next 5 to 10 years? (X) Yes () No () Uncertain Additional explanatory notes: The facility is located on property that used to

be wetlands. The nearby river is used for recreation and municipal water supply wells are located within 1/2 mile.

9. If already identified or planned, would final corrective measures be able to be implemented in time to adequately address any existing or short-term threat to human health and the environment?	Further information on the nature and extent of contamination is needed.
() Yes (X) No () Uncertain	Technical Ability to Implement Stabilization Activities
() Uncertain Additional explanatory notes:	12. In what phase does the contaminant exist under ambient site conditions? Check all that apply.
Final corrective measures have not been identified or planned.	 () Solid (X) Light non-aqueous phase liquids (LNAPLs) () Dense non-aqueous phase liquids
10. Could a stabilization initiative at this facility reduce the present or near-term (e.g., less than two years) risks to human health and the environment?	(DNAPLs) (X) Dissolved in ground water or surface water () Gaseous () Other
(X) Yes () No () Uncertain	13. Which of the following major chemical groupings are of concern at the facility?
Additional explanatory notes:	(X) Volatile organic compounds (VOCs) and/or semi-volatiles() Polynuclear aromatics (PAHs)
Stabilization appears to be necessary but	() Pesticides
further information on the nature and extent of contamination is needed.	 (X) Polychlorinated biphenyls (PCBs) and/or dioxins () Other organics (X) Inorganics and metals
11. If a stabilization activity were not begun, would the threat to human health and the environment significantly increase before final corrective measures could be implemented?	() Explosives () Other
() Yes () No (X) Uncertain	

Anticipated Final Corrective Measures

Additional explanatory notes:

Timing and Other Procedural Issues Associated with Stabilization
16. Can stabilization activities be implemented more quickly than the final corrective measures?
() Yes () No (X) Uncertain
Additional explanatory notes:
Further investigation is needed.
17. Can stabilization activities be incorporated into the final corrective measures at some point in the future?
(X) Yes
() No () Uncertain
Additional explanatory notes:

Conclusion

18. Is this facility an appropriate candidate for stabilization activities?
(X) Yes
() No, not feasible
() No, not required
(X) Further investigation necessary
Explain final decision, using additional sheets if necessary.
This facility has had 6 documented releases to on-site soil. Sources of these releases include a
phenolic wastewater holding tank, gasoline USTs, a sulfuric acid feed line, a diesel fuel truck, and
PRC capacitors. These releases took place between 1982 and 1992.
Cleanup of the area of the PCB release took place in 1984 and 1985. IEPA issued written
approval of the cleanup in 1985.
Further investigation is needed to determine the nature and extent of contamination from the
other 5 releases. Thus, at this time a stabilization initiative cannot be implemented but removal of
contaminated soil would be a possible course of action.

Facility Name CATERDILLAR TRACTOR Co.
Location (Lity, State) Monderny TI
EPA 1. D. # 7LD 052 101043104
Reviewer Name STENERISM
Date of Review 3/19/86

SUMMARY OF FACILITY CERTIFICATION REGARDING POTENTIAL RELEASES FROM SOLID WASTE MANAGEMENT UNITS

(1)	Are there any solid waste manag	ement units?	
	Yes No	Undetermi	ned
(2)	If answer to (1) is Yes, list to operating status. If answer to Question (5).	he units by type, (1) is No or und	number and letermined, go to
	Type of Unit		Status
a. b. c. d. e. f. g. h. i.	LANDFILL WASTEWATER TREATMENT UNITS WASTE RECYCLING OPERATION	5	ACTIVE - DERMITTED ACTIVE
(3)	For each type of unit listed in volumes of wastes handled.	(2), <u>summarize</u> t	the types and
a. b.	Type of Unit LAND FILL WASTE WATER TREATMENT UNITS	Type of Waste Non-HAZARDOUS SAND & DUST NON-HAZARDOUS	Volume of Wastes UNDETERMINED LINDETERMINED
c. d. e. f. g. h. i.	WASTE RECYCLING OPERATIONS	UNDETERMINED	UNDETERMINAD
•			

(4)	Summarize all release check box as to whet	es of hazardous her company cla	waste or co	nstituents, and ully corrected.
	Releases		Corrected?	u.
a. b. c. d. e. f. g. h. j.	NONE	Yes _	No	Undetermined
(5)	Certification: Yes		No	6
(6)	Is additional inform	ation necessary	? Yes X	No
(7)	THE NPDES DER	D. 3 INFORMA STE) MATERIALS	WASTEWATER	PLANT MANAGER. TREATMENT UNITS BE OBTAINED CONSTRUNG AND HOW THEY ARE



CATERPILLAR TRACTOR CO.

Mapleton, Illinois 61547

February 24, 1986

RCRA Activities Region V P. O. Box A3587 Chicago, IL 60690

Attention: ATKJG

Dear Sir:

Caterpillar Tractor Co. Mapleton Plant ILD052664364

Please find enclosed the Certification Regarding Potential Releases from Solid Waste Management Units for the above referenced facility.

Sincerely,

R. L. Claussen, Plant Manager

RLC:js (309) 675-8601

enc. (1)

CERTIFICATION REGARDING POTENTIAL RELEASES FROM SOLID WASTE MANAGEMENT UNITS

FACILITY NAME:	Caterpillar Tractor (Co Mapleton Plant	
PA I.D. NUMBER:	ILD052664364	· 100 000 12-00	
OCATION CITY:	Rt. 24		
STATE:	Mapleton, IL 61547		
closed) at your	of the following solid facility? NOTE - DO N I IN YOUR PART A APPLIC	IOT INCLUDE HAZARDOU:	its (existing or S WASTE UNITS
 Storage Tank Container St Injection We Wastewater T Transfer Sta Waste Recycl 	(Above Ground) (Underground) orage Area lls reatment Units	YES	
provide a descr of in each unit would be consid RCRA. Also ind disposed of and of each unit ar Provide a site		that were stored, trase focus on whether tes or hazardous conta on quantities or l. Please also provimensions and locatite plan.	eated or disposed or not the waste stituents under volume of wastes ide a description on at facility.
			•

(able on any prior or current releases of hazardous wastes or constituents to the environment that may have occurred in the past or may still be occurring.
Ŧ	Please provide the following information
t	Date of release Type of waste released Quantity or volume of waste released Describe nature of release (i.e., spill, overflow, ruptured pipe or tank, etc.)
_	There have been no hazardous waste releases.
-	
1	In regard to the prior or continuing releases described in Number 3 above, please provide (for each unit) any analytical data that may be available which would describe the nature and extent of environmental contamination that exists as a result of such releases. Please focus on concentrations nazardous wastes or constituents present in contaminated soil or groundwat
	Not applicable
	Not applicable
	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system
	I certify under penalty of law that this document and all attachments were

Caterpillar Tractor Co. - Mapleton Plant

Landfill

The Mapleton Plant landfill is permitted by the State of Illinois as a Solid Waste Disposal Site and is used only for non-hazardous waste sand and dust. See the attached site plan for the location of the landfill.

Wastewater Treatment Units

The Mapleton Wastewater Treatment Plant is permitted under NPDES and is non-hazardous. See the attached site plan for the location of the wastewater treatment facilities.

Waste Recycling Operations

It is the practice of the Mapleton Plant to find legitimate users of surplus materials, so they do not become wastes.

Waste materials that have value are put into the hands of reliable recyclers. This activity is carried out in accordance with the applicable regulations.

